

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /possible nucleotide deletion, v=possible nucleotide insertion)
16223	46591	A	16318	219	1912	PHPTRTSAQSVQYIEKDWGPG EGLEEGVGLGQLVAFDSFTVSF HFVSAGNSPSESEERERDPKV LTFPEYITSLSDSGTKHMAAGV RMECHSKGRCPSSCPLCHVTSS PDTPAEPVLLLEVTKAALLNTQS FPCSLMQLLQEATMSSLWCSTG GDVIEDWCRCDSAFGGCVPV CSFLSAHRLRLSTVHEPSSTLVV LEWEHSEPPIGVQVVDYLLRQE KVTDRMDHSHKVTGEHLLHGG LVLIQGDKTCTKKNALPHGFAP GPQYPRAMQEEQGEAAVLLL QEAAVLLPLRVDRISCCFRHR ELLFLMLFPFLLWAETVLSFV DDIISGAKSPCAMPSPQVPDKQL TTIYFQPLIARFSSRKGLLRIM SSHCHGDCDVSTLDSYTVSAN HALPLPARFTLWGV DNTGRRS RPSDVIVYM*ITYFFPPSSEIAD KIYNLFNGYTSGEQQTAYNTL LDLGSPTLHRLVLYHYNQHYEF ASF*LKYPLCLIHRRKAGLILSQL GDLSSWCNGLLQEPKISLRSS LKYLGCRYSEIKPYGLDWAELS
16224	46592	A	16319	1	2031	
16225	46593	A	16320	1	739	MKRAGSSGGRGECDISGAGRL GLEEAARLSCAVHTSPGGGRRP GQAAGMSAKERPKGKVIKDSV TLLPCFYFVELPILASSVVSLEYF LELTDVFKPVHSGFSCYDRSL MPYIEPTQEAIPFLMLSLAFAG PATTIMVGEGILYCCLSKRRNG VGLEPNINAGGCNFSFLRAV RFVGVHVFGLCSTALITDIHQLY TGHQAPYFLTVRTPNYSLNVS CT*NSYLAEDIRSRSDLTLTHSG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
16226	46594	A	16321	48	1359	GDKNQNPNNWPLGEGKGNLSG RKETGRSNRSRSHSSRSKSR*QSS SRSSRSRSHSRKKRHSRSRSTY SRSSWRDRMYSRDDRH*YEVIV DCSRHGREYKGREPRHSGSLE RPTEQETSQPKIRKEIVETKGT RGNCGTGLLRPKTMMVERSY GPQDRVAVGTWPHPGTERWAS SWDVSSSVRHQSEG VVQGW RCTHKSQQEVGACVNFRTPKVI LIYNLYLPVSHQFSKTFMSIVIV QKNLYLHNDFRALNVTHIYRLT IPNTTTCFTATQDEDKQIFHTAA QHRSHSTSSYQYLSLTRSHRYEI VFYTRGLGAPFPAGDGHGKFQ RLGKPYSHSVHFIPODKTQHIS INTPHKNSETTKQHTCSFAYGL YYYQQKEDNPYAWPQVPA EMVSRLAQSRHSQQSILHFSHQ SYHTDHISTV
16227	46595	A	16322	227	3020	SCIKPRRKEMGRSNRSRSHSSRSK SRSSQS\SSRSRSHSRKKRYSS\ RSR\SRYSRSDRMYSDY RRDYRNNRGMRRPYGYRGRG RGV/YQQGGGRYHRGGYRPV WNRHRSRSPRR\GRSRSPKR RSVSSQSRSRSSRSYSSRSRSPR SSSSRSSSPYSKSPVSKRRGSQE KQTKAEGEPQEEPLKSKSQE EPKDTFEHDPSEIDFNKSSAT SGDIWPGLSAYDNSRSPHSPSP IATPPSQSS
16228	46596	B	16323	258	3728	
16229	46597	B	16324	1	435	
16230	46598	A	16325	1120	1209	ASSDNPP*SEPRVSLTIEGQEIDF FLDTGTAFSVLSSCPGWLSSRS VTIRGILGQPVTRYFSHLL
16231	46599	A	16326	1291	1582	IHQSA LCI*LVCKKHTNQPVSS SGFVNA PIDTLYLATLVGPWRT LCVHTLYLVNLVGMWRTFVSS SGIVNAPISALSKQTTWLYQSA GCGWGQIRE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \=possible nucleotide insertion)
16232	46600	A	16327	2	840	APAVATEVLPGAGLTAGVLLWSDPKEPSNPGSSHRVGASDLDPAHPTLLSYTMQKLEELDVVLFDRSGHRTKFTNVGRMLLERGRVLLQAADKLTDAEALARGWETHLTIVTEALVPTPAFFPLIDKLAAKANTQLAIIT*VLGAWERLEQGRADIVIAPDMHFRSSSEINSRKLYTLMNVYVAAPDHPHQEPEPLSEVTRVKYRGIAVADTARERPVLTVQLLDKQRLTVSTIEDKRQALLAGLVATMPYPMVEKDIAEGLRLRVVSPESTS
16233	46601	A	16328	3	923	RFLSDGTIISVDSAGKVQFWDSATGTLVKSHLIANADVQSIAVA DFFPGHESRATEALCWAEGQR LFSAGLNGEIMEYDLQALNIKY AMDAFGGPIWSMAASPSGSQL LVGCEDGSVKLFQITPDKIQFER NFDRQSKRILSLSWHPSTHIA AGSIDYISVFDVKSGSAVHKMI VDRQYMGVSKRKCIVWGVAF L SDGTIISVDSAGKVQFWD SATG TLVKSHLIANADVQSIAVADQR RQFRGGHSRGNLSPSAGPCAS NSS*EAVGADKTVPSHS*RAH CGPTAQQR*YLG GTDTHLVFRP
16234	46602	A	16329	2	1059	
16235	46603	A	16330	582	1540	
16236	46604	A	16331	1	720	
16237	46605	A	16332	1	477	
16238	46606	A	16333	1	540	
16239	46607	A	16334	1	261	
16240	46608	A	16335	964	1574	LRWCCGSQLFRGYWGGVTGR YLTVLPPHLAVGCMAPWGPFS VRIAAVVFIQIFAGEVFWCPVM CVRGLCTPVLTVGPVGHGNSHIP AIVFTCSLQTLVGGTRRWRC CAAGDVTKFPALVGVGGETPR PQLPIGVTTVILLQVLVVKFGR NVMSVWALRVPLAFQSRH/ ASWKFCRHSFLHCNAYIPLHTQ ECRSSHISFLDQ
16241	46609	A	16336	3	87	
16242	46610	A	16337	1	1398	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
16243	46611	A	16338	1596	2205	LRWCCGSQLFRGYWGGVTGR YLTVLPPHLAVGCMAPWGPFS VRIAAVVFIQIFAGEVFWCPVM CVRGLCTPVLTVGPGNGNSHIP AIVFTCSLQTLVGGTRRWRC CAAGDVAKFPALVGVGGETPR PQLPIGVTTVILLQVLVWKFGR NVSMVVALRVPGLAFAQSRH/ ASWKFCRHSFLHCNAYIPLHTQ ECRSSHSIFLDQ
16244	46612	B	16339	276	442	
16245	46613	A	16340	1	300	
16246	46614	B	16341	1	903	
16247	46615	A	16342	119	889	RQHILESHSRPILCTTWPLLIQ DPRTLQSAAMLLTQSLFGIFT RTRMKFGAVTWGGPPLGDQS PSSCSLLREKDPPTTSGPQTHQ PKEHLTNFKSGVPRRDACLGP SPLAASPAFLGKGQVPQPLISLC PDPFLPHNPLISLRPNPLCPHPD LVSLCPDPFPFALEAHKNFQTP PQQPGIPPEPPPGACYKCKQSD HQAKECLQPRIPPKPCPCAGPH WKSDCS THLAATPRAPGTAE GSLTDSFSA
16248	46616	B	16343	1	498	
16249	46617	A	16344	3	903	
16250	46618	A	16345	1	684	
16251	46619	A	16346	2	1028	
16252	46620	A	16347	1	338	
16253	46621	A	16348	2	392	
16254	46622	A	16349	790	2184	
16255	46623	A	16350	773	890	
16256	46624	A	16351	467	606	
16257	46625	A	16352	1569	1841	
16258	46626	A	16353	430	980	LLTEDALDDLPSFLLTGQQTTPA FGRRVSGVIEIADGSRRRKAAA LTESNYRVLVGELDDEQMAAL SRLGNDYRPTSA YERGQRYASR LQNEFAGNISALADAENISRKII TRCINTAKLPKSVVALFSPHGE LSARSGDALQKAFDTKEELLKQ QASNLHEQKKAGVIFEAEVIT LLTSVLKTSASRTSLSSRHQFA PGATVLYKGDKMVLNLDNRSR* RGIT*AAGI*PS*AEKSWGDI*S* RSYHSFNFECA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
16259	46627	A	16354	1	343	MKRAPVIPKHTLNTQPVEDTSL STPAAPMVDSLIARVGVMMARG NAITLPPVCGRDVKFTLEVSGVI VLRRLPGYGQVMNVTRSCLLR THWMISSLLFY*LNNRHRRSVE EYLV
16260	46628	A	16355	1	584	MLRDLLKNVDLKGFEFDVRI TKYSNSNGSQSPWMEEQIRDA WGSMLVKNVVRETDEVGKGQI RMRTVFEQAIDQRSSDNEGAP VIPKHTLNTQPVEDTSLSTPAAP MVDSLIARVGVMMARGNAITL VCGRDVKFTLEVSGVILRRPL GYGQVMNVTRSCLLRTHWMI SLLFY*LNNRHRRSVEEYLV
16261	46629	A	16356	62	350	SLPNLDNAACSSSSSPTRTR*SL SVSAAALRRRLPSAIDHTREVF STLSPRSTSRVNFTRPHTGKV MALPRAITPTRAINESTIGAAGV DNEV
16262	46630	A	16357	291	502	RLFVHHVHKHLLGDNRYPI WIMQPSAHH/RSPTTR*SLSV SAAALRRRLPSAISMTPDTRLR NAGVC
16263	46631	A	16358	1	378	
16264	46632	A	16359	159	433	SYVKYFPHQPAQKYFQQIHSAI GLHNADHVHKHLLGDNRYPIW IMQPSAHH/RSPTTR*SLSVS AAALRRRLPSAISMTPDTRLRN AGVC
16265	46633	B	16360	1	624	
16266	46634	A	16361	3	299	
16267	46635	A	16362	163	699	
16268	46636	A	16363	795	980	
16269	46637	A	16364	663	734	
16270	46638	A	16365	391	1248	
16271	46639	A	16366	1	1143	
16272	46640	A	16367	1	271	
16273	46641	A	16368	1	493	MSKRRWLGTNGSDRENIRLDL GFLVSDDEEKRYKCEDCGKAFN RSSNLTHKKIHTGEKPYKCEE CGKAFKRSSILTHKRIHTGEK YKCEECGKVKYLLSSLTHKIIH TGEKPYKCEECGKAFNWSSHL TTHKRIHMERNPTNVKNVAKA LSTPLPLLNK
16274	46642	A	16369	728	1428	
16275	46643	A	16370	3689	3864	NYKSFFKWS/SQMOSMTKIYRG PLDHPDSPCSNVNDIEGTPPEEI STAQPLHPRPAGSS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, * = Stop codon, / = possible nucleotide deletion, \ = possible nucleotide insertion)
16276	46644	A	16371	2	126	WPLLLGLCLSLTKEWGFQA*LE KHVVRVKFSPSHNLVPGRSI
16277	46645	A	16372	728	2207	
16278	46646	C	16373	1	873	
16279	46647	A	16374	1220	2097	
16280	46648	A	16375	73	1438	QDLRLFYLKDTMFASKLAHLQR FAVLSRGVHSSVASATSVATKK TVQGPPTSDDIFEREYKYGAHN YHPLPVALERKGKIYLDWVEG RKYDFDLSSYSVNVQGHCHPKI VNALKSQVQGN*PLTSRAFYN NVLGEYEEYITKLFNYHKVLP MNTGVEAGETA'CKLA'RKWG L'YTVKGIQKYKAKIVFAAGNF WGRTL'SAISSSTDPTS'YDGFPGF MPGFDIIPYNDLPALERALQDP NVAAFMVVEPIQGEAGVVVPDP GYLMGVRELCTRHQVLFIADEI QTGLARTGRWLAVDYENVRPD IVLLGKALSGGLYPVSAVLCDD DIMLTIKPGEHGSTYGGNPLGC RVAIAAL'EVLEENLAENADK LGIILRNELMKLPDSVVTVAVRG KGLLNIAIVIKETKDWDAAWKVC LRLRDNGLLAKPTHGDIIRFAPP LVIKEDELRESIEIINKTILSF
16281	46649	A	16376	600	806	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
16282	46650	A	16377	1	2255	EPDVCAKMAGRSMQAARCPD ELSLTNCVVNEKDFQSGQHVI VRTSPNHRVYFTFLKTHPSVVP SIAFSLPQRKWAGLSIGQIEVS LYTFDKAKQICIGMTIIEIDFLQK KSNDSNPYDITDKMAAEFIQQF NNQAYSVGQQLVFSFNEKLF LLVKDIESMDPSILKGEPATGK RQKIEVGLVVGNQVAFEKAE NSSLNLIGKAKTKENRQSIINPD WNFEKMGIGGLDKGFSDIFRR AFASRVFPPIQVEQMCKHV GILLYGPPGCGKTLARQIGKM LNAREPKVYVNGPEILNKYVGES EANIRKLFADAEEERRLGANS GLHIIIFDEIDAICKQGRSMAGS TGVHDTVVNQLLSKIDGVEQL NNILVIGMTNRPDLIDEALLRPG RLEVKMEIGLPDEKGRQLQILHIH TARMRGHQLLSADVDIKELAV ETKNFSGAELEGLVRAAQSTA MNRHIKASTKVEVDMKEAESL QVTRGDFLASLENDIKPAFGTN QEDYASYIMNGIHKWGPVTRV LDDGELLVQQTNSDRTPLVSV LLEGPPHSGKTLA AKIAEESN FPFIKICSPDKMIGFSETAKCQA MKKIFDDAYKSLSCVVDIIE RLLDYVPIGPRFSNLVLQALLV LLKKAPPQGRKLLIGTTSRKDV LQEMEMLNAFSTTIHVPIATG EQLLEALELLGNLKDKERTTIA
16283	46651	B	16378	1	2181	
16284	46652	A	16379	1	441	
16285	46653	B	16380	47	482	
16286	46654	A	16381	1	636	MRDPNTRKSRGFGFVTCATVE EVDAAAMNARCKVVGRTVEPK RAVSREDSQRPEDTEELHLRDY FEQYGKIEVIEIMTDQSGGKKR GFAFVTFDNHDSMDKTVIQKY HTVNGHNCEARKALSKQEMAR ASSSQRGRSGSGNFGGGRGGGF GGNDNFGRGGNFGHGGFGGS HGGGGYGG/SGDGYNGFGNDG GGGSYNDNFVYNNQSSHFPM
16287	46655	A	16382	1	762	
16288	46656	B	16383	59	1042	
16289	46657	B	16384	76	848	
16290	46658	B	16385	179	400	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
16291	46659	A	16386	27	372	VGSLRRPGPPRETRRLRRRRS LEPWAFLLKEAKVG*QPSSLFQ WEGPMGLCSTPLVMNMGDSL TKVHLFQVPPLTITSPGPRTRRPH S*YPSPLATGVWAAVWCKQP HFPAK
16292	46660	B	16387	134	284	
16293	46661	A	16388	1	2013	
16294	46662	A	16389	313	770	IFGFVVMHGPAGQAVLELLQ LTGDQSLGLSQRHMAALDALV HLLHGGGLAVLTAGAAPEHET RGIALREEQCRNPRCVKRGW AQEKQA*PGQRGGRKSSPFWF TL/DSASAGPRAAHLHLPDVL LQTLHHGLHRLHPPELLQLSHG
16295	46663	A	16390	1	2753	
16296	46664	A	16391	1	1363	
16297	46665	A	16392	26	181	
16298	46666	A	16393	1	867	
16299	46667	A	16394	1	1447	
16300	46668	A	16395	31	659	APALPGCEHMMAIRELKVCLL GDTGVGKSSIVCRFVQDHFH NISPTIGASFMTKTVP CGNELH KFLIWDTAGQERFHSLLPLYL/R GSAAAVIVYDFTEAGFHFPPLK KWW/KRLKELGPE/NIVMAIAG NKCDLSDIREVPPGMLKEYVA ESIGAIVVETSAKNAINNEELFQ GISRQIPPLDPHENGNNG/TIKVE KPTMQASRRCC
16301	46669	A	16396	1	1182	
16302	46670	A	16397	1	513	
16303	46671	A	16398	146	429	TFYTCFSPSVIPFSFIHTKPYPG HHQSFYMTNVSSNNPTISPLTT RPPFSLISALGSHAAPNPA*SSP EKHRPFSLHTTPQKFRPNTSTL F
16304	46672	A	16399	1	435	
16305	46673	A	16400	56	477	ARAAGGESCEGPGVGRCSFSS YRQTPCCQRLVNVPKTRRTF CKK/CGKH/RPHKVTOYKKGKD SFYA/QGRRRYDRKQSGYGGQT KPIFRKKA/KTTK/MGLRLECV EPNCRSKR/MLAIKRCKHFELG GDKKRKGQVIQF
16306	46674	A	16402	183	373	IHGSSNPPTPERETLFWHAENG SALASC*KSGGQAPKRVRTTL ILKAEILGLMLVLRSHGM

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
16307	46675	A	16403	1	881	MPFKCKKQHTFNKTSPEKGAII FTHGCLCTSPFNSELSEHLGNL KLSSWEHLHHRSQQLSVRLH VPTQPQVEHEFIQLIYIHTGAKL QASKVIIATKDGKRRKSPLWQL KYPKLIIREASSVSEELHKEVQ EAFLLHKGHCLFRDLVRIQGG DLLTPVSRILIGNPGCTYKYLNT RLFTVPWPVKGSNIKHTAEIA AACETFLKLNLYLQIETIQALEE LAAKEKANEDAVPLCMSADFP RVGMGSSYNGQDEVDIKSRAA YNVTLNFMDPQKMPYLKEEP YFGMGKMAVSWHHDENLVDR IQLQLWDPVDGTTASSAVPKQ GRDKRREVPNTLSQPNSEQGLI SAFHSRCVHAVFYKLTSAPKTT SLPDVPSDLLAEGLAASRAGQA LWRCDKKSLLTLVRKINLQKG RDGGRSATNQSQPHLNDTGL ERQLEQKVGRCRSPWRGLGHL EGNAQKGHLLHGYNKNGQHL L*MPPSPPLPGGQKGRVLGMLS WVLT*VYKIQH/GT/PAAVEG*D EAFLAVWLGEVGDFSPVPSL LWHS*RGCCSIHGIPLELNPVH QIFIM/SASSLPSPCQNKVPLSG
16308	46676	A	16404	1	459	
16309	46677	A	16405	1	2025	
16310	46678	A	16406	1	816	
16311	46679	A	16407	1	217	
16312	46680	A	16408	3	135	
16313	46681	A	16409	21	218	
16314	46682	A	16410	392	3744	LNYKMLLKNLSPMSMLKAFSF AIPMPQAQTNLPTAKPNGFQP LLLSQYNACPPQ*EAG/QVDL CSTIPLNLLPDSLPLTVPTGPLPQ GSVGLVLGRASSAKGITIHTGL INSDSVDEIKLITSAKVPVSILAG ESIAQLLLLPHILNKGDKTRGP GMGSRGEKAAYWINVISKQRP TCTHIHQGRKFEGLVDTGADV VISSSLWPSSWLKHPTNMGVLV VGKAEVYVGSTFILPCTGLDGQ KGTIQPYIM
16315	46683	A	16411	1	783	
16316	46684	A	16412	1	1911	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
16317	46685	A	16413	3	1381	KTPFVG YQHQRPKVDKTTKMG RNQSRKAENSKNQSTSSPPKDR SSLPATEQSWTENDFDELTEVG FRRSAITNFSELKEHVLTRRKEA KNLEKRLDEWLTRINSVEKTLN DLMELKTMAQELRDARTSFNS *FNQVEKRISVIEDQIDEIKQDD KAAETCNWRWVSESRLQLRAS VDAFHARASHYNAGECLHQLA ALNSRLNCAQEMARRDSIGVVP PVPWRTVVVSGIAGEAKLDHL RLVSLIGREVNKENS PAATR WL FSFQAGALAGGQIVLQA AKPN AHGQPVVATRNLN PAGIVAV LKQRPRLVAAAVQAFYLRDPID LRACRVFKTFLPETRIMTSYYAI EWSLWTLVDVLHAENSEAHM SHNSYDPPSDVARHLTHLPMSP IPDYIARFRYRHR SRVRLTARK LSPAFMRCSEIQRYSTMLERG FNGGYCRSTTVRVVTEATRML
16318	46686	A	16414	1	1191	
16319	46687	A	16415	1	1909	
16320	46688	B	16416	1	1791	
16321	46689	A	16417	1	1818	
16322	46690	A	16418	1	1044	
16323	46691	B	16419	1	1140	
16324	46692	A	16420	1	1062	
16325	46693	B	16421	1	972	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
16326	46694	A	16422	1	1758	MDTFLQAERKDYMEAYELIEQ EEQGVKELNRLPTAPSAHPRD EAHLIMVDKLFVLLDSVCQYF IEDFCIDVHHINSRW/AVCQYFI EDFCIDVHHINSRWIKDLNVRP KTIKLEENLGNTIQDIGMGKD FLSKTPKAMATKAKIDKWDLIK LNNFCTAKETTIRLPVPNPGPV AETPLSRVFLREARKTLKPHQ STCLSKGRDNSIDSWKTAARVL KTAISSTPTIPILKQDQTQEWVS ATFTSDGKIRLFYTDYSGKHYG KQSLTTAQVNVSKSDDTLKING VEDHKTFIDGGKTYQNVQQFI DEGNYTSGDNHFLRDPHYVED KGHKYLVFEANTGTENG YQGE ESLFNKAYYGGGTNFFRKESQK LQQSAKKRDAELANGALGIEL NNDYTLKKVMKPLITSNTVTDE IERANVFKMNGKWYLGELGW RREWSSGDRKSLARLSKTGTLG LAALT YKCTRDQWTVYCRVIR EKNLCQDMRWYQRCQCTCRD FYANKMSPATAELVTRSPKGRS KLRLRYQLVFISLKGKPKARKGK ASSGSKLSLLSSKTV ALAGMG RGDEFQMELESEDLT SERDGIL TPTSSNQKSKAYGSLIRT
16327	46695	A	16423	1	4449	
16328	46696	A	16424	3	3859	QFLPNLDSTVLGENYFDGTYQ MLYLLVKGTIPVEIHTATVIFVS FQLSVA TEDDFYTSNHLVKNLA LFLKIPSDKIRISKIRGKSLRRKR SMGFHIEIGDPPIQFISNGTTGQ MQLSELQEIAGSLGQAVILGNIS SILGFNISMSITNPLPSPSDSGW IKVTAQPVERSAPVHHVAFVS SLLVITQPVAAPGQPFPPQPSV KATSDSDGNCVSVGITALTLRAI LKDSNNNQVNLSGNTTIPFSS CWAN

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
16329	46697	A	16425	65	1905	RTSSRKTTNHCSEIKEDTNNWK NIPCSWIGRINIVKMAKLPKPPPL VIPRQTGSGVDLQQTPTDLHLR VLTVRRKTNKQKGHPHQNPCT SPSSKTKVLEVLARAFRQEKEI KGIQVGKEEVKLSLFAADDIMVY LENPIVSAQNLLKLSNFSKVS YKINVQKSQAFLYTNNRQTESQ IMTELPFTTASRKIKYLGQLTR DVKDLFKENYKPLLNEIKEDTN KWKNNIPCSWVGRINIVKMAILP KVIYRFNAIPIKLPMTFFIELEKT TLKFIWNQKRARIAKSILSQKN KAGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIM LHIIYNLIFDKPEKNQWGWKDS LFNIWCWENWLAICRKLKDPF LTPYTKINSRWIKDLNVRSKTIK TLEENLGNTIQDIGMGKDFMSK TPKAMATKAKIDKWDLIKLSKF CTAKETTISVNRQPTWEKIFAI YSSDKGLISRIYNELKQIYKKKT NNPIKKWVKDITNRHFSKEDIYA AKRHMTKCSSSLAVREMCIKT TMRYHLTPVEEVVRAGEMAKTR RCQN VKGASEEGIRA/HCFVSH *PHCP/LWRATTLMETLKFKEPIE VPCKPLEKSVSLLLL
16330	46698	B	16426	1	2348	
16331	46699	A	16427	1	660	MPNFFIDRPIFAWVIAIIMLAGG LAILKLPVAQYPTIAPPAVTISA SYPGADAKTVQDITVTQVIEQN MNGIDNLMYMSSNSDSTGTVQ ITLTFESGQVQNKILQLAMP/LI PQEVQQQGVSVKSSSSFLMVV GVINTDGTMTQEDISDYVAAN MKDAISRTSGVGDVQLFGSQY AMRIWMNPNELNKVERNSRRQ DVGERDISGSRKVNKESREDE EVT
16332	46700	A	16428	1	975	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 9,540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
16333	46701	A	16429	1171	2007	AVDIVQGLVRGWGRQGWLLS GRGIPEGPLLWGATVGSWRR LLPLTGVCGPLGAVPVLIS*LL GGAQVQLLREEEAGHEL VQQL VDGALVLLLDGRLPLHVVADE RCCVLQDLPLVLVHKDEVRLAR GGTAALRVLLLVVVDALDLV EQALGAQGLGVVLEHVSLVV KGLEVRLLIILPPDLVEALLGLP PLLFLGLQSFQDNGDSGDRVLL EALDDLRLGLVAIDAINGTALDH LRRASQGVVQPELLLVFRHPR QLLLHTFQHTDCGQVRLQDIV
16334	46702	B	16430	1	768	
16335	46703	A	16431	1	2553	
16336	46704	A	16432	3	573	CEMHSVQKNEHDKTPEHSRKR SRPSLLRPVSAPAKKMKMLRGT KDLISIAAVGKYGTLP/IGIFL*Q GPPGAEPEGGV*KLPPLHRTLQ PGAGVWL*APAAQPISGVSS* LPRAP*GGSVVPNSIYLVFSYCF *AMIVLF*NPVY*LT*LI*LLIPM HL*GAIIHLGLTLQVLPVPTSV VSILTRIQQWVLE
16337	46705	A	16433	110	1347	LTTATGMELSMGSTTWTSLCK AENAAQCQEKPHIWLCSISFL RLKRRRTTTKNTGTKKIASTVA VTIPITPLPTAFCAPEAPVLLT SGIPPRLNASENPQLLSGS/SSSD STGTVQITLTFESGTDADIAQVQ VQNKQLQAMPLLPQEVQQQGV SVEKSSSFLMVVGVIN TDGTM TQEDISDYVAANMKDAISRTSG VGDVQLFGSQYAMRIWMNPNE LNKQFLTVPDVITAIKAQNAQV AAGQLGGTPPVKGQQLNASIIA QTRLTSTEEFGKILLKVNQDGS RVLLRDVAKIELGGENYDIAEF NGQPASGLGIKLTATGANALDT AAAIRAELAKMEFFPSGLKIG YPYDTPPVVNISIHVEGKTLVE ANNLVFLAMNLVLQEFPPADVIS TIAGPPSLRSSRVPLG
16338	46706	B	16434	1	2550	
16339	46707	B	16435	1	630	
16340	46708	A	16436	270	455	
16341	46709	A	16437	174	492	GALQPPPCVTGAPFWAGQGWS PLPQLAGRCGRGTVRGTGAAC GACGPAGVPGGLGLGPRTRSS RPALLAPNGGLSTRASGCGGC TESPSSGWPTSAAALDFLPGP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
16342	46710	A	16438	3	413	
16343	46711	A	16439	31	507	
16344	46712	A	16440	1	537	
16345	46713	A	16441	152	247	
16346	46714	A	16442	44	208	EEMTSKMYKVIIRKTMKASVC TQVKHPAIASICKAVL*VGPWS GHFKYAGLPIL
16347	46715	A	16443	1	549	
16348	46716	B	16444	376	862	
16349	46717	A	16445	2	1603	TNVSTTIATVVLNALARATKLL PPGHRRSNPATAAASSPPTTLA HCSLRSHHQPLRGEQQQAIR TAGRCALKSSCPFFECGRSSG APPGACGQIFRVSNAKLEPQAR PSSPVTGGPLDLMACRVVAAS REMAMLIAQALQTINYGRDDE NGHTHSACEVHHGGRVPELSV PSFSWRNRNNSFIMGSIPTDY TLSCVYLPREDVVLIIYCGVSTN EQPDEEVPRTRFPTVAVSIGFAV RQELEFGVIYHCLVYRLYTGR GRGAFNCNGQLRVSGETASGM LPGIQIHQIQEQNLQVGASTEL PCNLHTTRIRVASAPSSAPEDGT ESKTCNFRVTSKGYCLALPRV PFPLTTGYKHLHKPPTGTHSTY HSMCLLNQPGWLRITISILFLNN KICWQKKSGREIKIEDYFPEYA NYTVPEDGHLSAHLIYLSGLCM WLQHSQDSILYTDYRRGGEN SFVMVNSVALNGDGCICSETE AELIEVSHRLNCSREVEHLNA TGELGEERAHGRQQAACGFTIA
16350	46718	A	16446	1	648	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, * = Stop codon, / = possible nucleotide deletion, \ = possible nucleotide insertion)
16351	46719	A	16447	329	2497	GEGQAVLQGKMGEEKPIGA GEEKQKEG/GKKKNKE/GSGDG SRAELNPWPPEYIYTRL KAEHDSILAEKAEKDSKPIKVT LPDGKQVDAESWKTTPYQIAC GISQGLADNTVIAKVNNVVWD LDRPLEEDCTLELLKFEDEEAQ AVYWHSSAHIMGEGMERVYG GCLCYGPIENGFFYDYMYLEEG GVSSNDFSSLEALCKKIIKEKQA FERLEVKKETLLAMFKYNKFK CRILNEKVNTPTTIVYRCGPLID LCRGPHVRHTGKIKALKIHKNS STYWEGKADMETLQRIYGISFP DPKMLKEWEKFQEEAKNRDHR KIGRDQELYFFHELSPGSCFFLP KGVYTYNALIEFIRSEYRKRGFQ EVVTPNIFNSRLWMTSGHWQH YSENMFSEFEKELFALKPMNC PGHSLMFDHPRRSWRELPLRLA DFGGLHRNELSGALTGLTRVRR FQDDAHIFCAMEQIEDEIKGC LDLRLTVYSVFGFSFKLNLSTRP EKFLGDIEVWDQAEKQLENSL NEFGEKWELNSGDGAFYGPKI DIQIKDAIGRYHQCATIQLDLDFQL PIRFNLTVVSHDGEDKRPVIV HRAILGSVERMIAILTENYGGK LAPFWLSRQVMVVPVGPCTD EYAQNVRQQFHDAKFMADIDL DPGCTLNKKIRNAQLAQYNFIL VVGEKEKITGTVNIRTRDNKVH
16352	46720	C	16449	189	456	
16353	46721	A	16450	3	1414	
16354	46722	A	16451	95	293	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
16355	46723	A	16452	1	1136	MKKRPGHSLFQFQFLMFLRFE ARQPLSEEDVASLSWRPLHLP ADWQRAALSLWTHRTFREVLK EEDVHLTYQDWLHLELEIQPEA \MLFQILNGRTSTSGRSMSTFSL SPRLQGAVTETCRLRVFPFLSTH* WISTKAQGYMTTQKILIWSLVA AQEMRILFPDCRRW*LTWSCSK TS*CLSATPLPRSTSSLRFSADG SRL*QAGGAWLPFRDRGSC*C TNGSSSACLRLSSAAAASRQNS PSLPDASSSTWSTLR*ETSAPT EVP*HRTSLPTS/QGPPERLSAE QRPLPDGR/RSYWPFSARRNA/RL ILT/FCSGVVAEPGACAALPVEE TLPEAAPGTAEATRRPAVCQR VRVGAIGFPFLLLDGPAVVTS DLK
16356	46724	A	16453	3003	3482	HRPRTRPCPWRNRNHHLGHRA L*PQRARR*SPNPEDGSEDEHL *QLC
16357	46725	A	16454	598	759	KVILGLWTEEAQVGQGGLRAP TPRLLHHVLK*DIKR* AHRPDA VAHACNPNTLG
16358	46726	A	16455	1	1767	
16359	46727	A	16456	2	572	
16360	46728	A	16457	1	726	
16361	46729	A	16458	155	1334	HALGRRGGSQELSAAGAASP SGSERRAPGALPCAWAALLV LGAPPASRPGFAAGKTMMLK EYRNCMLPTVDEYKIIGQLYM ISKHSH/EQSDRGEGVEVVQKE PFEDPHHGNGQFTEKRVYVLSK LPSWARAVVPKIFYVTEKAWN YYPYTITEYTCFLPKFSIHET KYEDNKGSDNDFDNEAKDVE REVCFDIACDEIPERYKESD PKHFKSEKTRGQQLREGWRDS HQPMCSYKLVTVKSEVWGLQ TRVEQFVHKVVRDILLIGHRQA FAWVDEWYDMTMDVREFER ATQEATNKKIGIFPAISISSIPL PSSVRSAPSSAPSTPLSTDAPEFL SVPKDRPRKKSAPETLTLDPPE KKATNLNPGMHSSDKPCRPKSE
16362	46730	A	16459	26	355	
16363	46731	A	16460	86	489	
16364	46732	B	16461	1	201	
16365	46733	A	16462	3	367	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
16366	46734	A	16463	58	553	VARSAPPDGAAGCAGPGSRRT MAEQSDEAVKYYTLEIEQKH HSKSTWLILHHKGYDLTKFLE EHPGGEEVLREQAIGDIAENF EDVGHSTDAEMSKTFIIGELH PDDRPKLNKPPPE*RRCFKETLI TTIDSSSSWWTNWVIPAISAVA VALMYRLYMAED
16367	46735	A	16464	185	489	
16368	46736	A	16465	134	345	
16369	46737	A	16466	572	1017	
16370	46738	A	16467	911	1013	
16371	46739	A	16468	1	157	FGGNQKGERGTGQKKGGERGAK RKDFPGAVCSIALGLAKGCG* SWRPSSAN
16372	46740	A	16469	71	369	SCGLSLIKMTTSQKHDFVAEP MGEKPVGSLAGIGEVLGKKLE ERGFDAKYVVLGQFLVLKKDE DLFREWLDKTCG/APNAKQSR DCF*CLREWCDFAFL
16373	46741	A	16470	1	831	
16374	46742	A	16471	368	679	SSQLNKAPSLFNPVSEEFCLWL LLQKELLTRITSLKNTNDLV DLKNTA*ELHEAHTSINS*IDQV EERISECEDHLTEIRHSEKMKTA LLK*DMQTRREKKK
16375	46743	A	16472	536	717	
16376	46744	A	16473	1	1632	
16377	46745	A	16474	1	651	
16378	46746	A	16475	1	903	GGGGRMKLIDYGLSGYQEESA EIVKAMDFITSTAILPFLGCLG VFGLFRLLQWVRGKAYLRNAV VVITGATSGLGKECAKVFYAA GAKLVLCGRNGGALEELIRELT ASHATKVQTHKPYLVTFDLTDS GAIVAAA AEILQCFGYVDILVN NAGISYRGTIMDTTVDVDDKR METNYFGPVALTKALLPSMIKR RQGHIVAISSIQGKMISIPFRSGI CQPSKHATQAFVFDCLAVPEM/E QFEIETVISPGYIHTNLNSVNAIT ADGSRGVMDDTTTAQAEALW RWPRMFLLLWGRRRKM
16379	46747	A	16476	359	1094	
16380	46748	A	16477	1	906	
16381	46749	A	16478	1	371	
16382	46750	A	16479	11	257	
16383	46751	A	16480	2	419	
16384	46752	A	16481	1	2514	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=I, unknown, *=Stop codon, /=-possible nucleotide deletion, \=-possible nucleotide insertion)
16385	46753	A	16482	262	822	AGCTRKTRIIDVVYNASNNELV RTKTLVKNCIVLIDSTPYRQWY ESHYALALGRKKGAKLV RVTS L*GLWGGQPDSSLVMKTLSSS ATEGREMRAF*AEEGQHWGVQ GSRKLPAPFLP*A HIFVSPFQT PEEEILNKKRSKKIQKKYDER KKNAKISSLLEEQQFQKGKLLGE KADELEVGSRRD
16386	46754	A	16483	2	799	SQWLKLPSPPLPHAGISRY'NWD QAP*KTGGPRESYPYHKKREVM KLGRPSCPN/NPKIGPPAGIQHSP VCRGG*QVNTRAPEVWTVGNF ISWGLICRCTP*NKDPSIVVLQC HLNNGAWFRTQGPWVEEFCIV ASSDQQQPYRIQWVRSPNLCAC PLGPAKKGEPLDLSLRKEEIFK QKNDLKKLRKEI*LKRKKNCOI PAVLPGREQFPARGKLS CRA/SR FQGPQQLWAEQDGFCA*EGQK SLEFLSFRKNPRPRKGQIKFLVF VFHPC
16387	46755	A	16484	1	681	
16388	46756	A	16485	287	694	IISSRPAPASAPRRWGLSWSWQ RCWC**TPSPSPRPRPAEG\CLR GRGRGAGGGLPFRPHGSLVHS GAQPPHFPPLPGGARQTCGAPP GSWSCVL/CRPAETGAAAAGSP AAAGSTRKRLGRAQGRGCRVA ALRLSPTH
16389	46757	A	16486	189	381	QGAGSVGR TGQQLKPGPFFLE KLLSLGCT/LSG*ALRARACCSP CCRPGAGCQPAPVAQAGHP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
16390	46758	A	16487	1	2388	QGRLLVAKPPRPARSTAADSSTP RDMLGLRPPLALVGLISLGCV LSQECTKFKVSSCRECIESGPGC TWCQKLNFTGPGDPDSIRCDTR PQLLMRGCAADDIMDPTSLAET QEDHNGGQKQLSPQKVTLYLRL PGQAAAFNVTFRRAGYPIDLY YLMDSLVSMLDDLNRVKKLGG DLLRALNEITESGRIGGFSVDK TVLPFVNTHPDKLRNCPNKEK ECQPPFAFRHVLKLTNNSNQFQ TEVGKQLISGNLDAPEGGLDA MMQVAACPPEIGWRNVTRLLV FATDDGFHFAGDGKLGAILTPN DGRCHLEDNLYKRSNEFDYPS VGQLA/HKLAENNIQPIFAVTSR MVKTYEKLTEIIPKSAVGELSE DSSNVVHLIKNAYNKLSRVFL DHNALPDTLKVITYDSFCSNGV THRNQPRGDCADGVQINVPITF QVKVTATECIEQSFVIRALGFT DIVTVQVLPCQECRCRDQSRDR SLCHGKGFLECGICRCDTGYIG KNCECQTQGRSSQLEGSCKRD NNSIICSLGDCVCGQCLCHTS DVPGLIYGQYCECDTINCERY NGQVCGGPGRGLCFGCKRCRH PGFEGSACQCERTTEGCLNPRR VECSGRGRCRCNVCECHSGYQ LPLCQECPCPSFCGKYISCAEC LKFEKGPFGKNCSAACPLQLS NNPVKGRCTCKERDSEGCWVAY
16391	46759	A	16488	353	1205	
16392	46760	A	16489	11	440	FRALTEGDTQLNWNIVSFPVAE ELSHIHENLVFLETVNQPHHQ VSVPSNNVHAPYSSDKEHMCT VVYFDDCMSIHQCKISCESMG SHPNIRWVSLMACCECIGPECID YGSKTVKCMNCMF*RRQMOT KAT**NNRYKKLKK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
16393	46761	A	16490	515	1808	KRKQTGEFGFNSFE\WCDSDLCEMNAGMPKGNLNEQDPKHCPESEKCLLSIEDEESQQSILSLENHQQSTQPEMHKYGQLVKVELEENAEDDKTENQIPQRMTRNKA NTMANQSKQLASCTLLSEKDS ESSSPRGRIRLTEDDPQIHHPR KRKVS RV P Q P V Q V S P S L L Q A K E K T Q Q S L A A I V D S L K L D E I Q P Y S S F R A N P Y F E Y L H I R K K I E K R K L L C S V I P Q A P Q Y Y D E Y V T F N G S Y L L D G N P L S K I C I P T I T P P S L S D P L K E L F R Q Q E V V R M K L R L Q H S I E R E K L I V S N E Q E V L R V H Y A A R T L A N Q T L P F S A C T V L L D A E V Y N V P L D S Q S D D S K T S V R D R F N A R Q F M S W L Q D V D D K F D K L T C L L M R Q Q H E A A A L N A V Q R L E W Q L K L Q E L D P A T Y K S I S I Y E I Q E F Y V P L V D V N D D F E L T P I
16394	46762	A	16491	1	699	
16395	46763	B	16492	6	5954	
16396	46764	A	16493	22	585	
16397	46765	A	16494	1	837	
16398	46766	A	16495	1	1422	
16399	46767	A	16496	13	189	
16400	46768	A	16497	193	366	GRPGIFKSFRCRW* C * F H M E F I W K S S A * / W S G V W H A G N I C L S I S N P E D L R A S Q F C S S G
16401	46769	A	16498	1	888	
16402	46770	A	16499	3	531	DAWADAWADAWADAWALQS RRRRRRTQTLSSPHDCYRGLQ SLLLILCKMATLKEKLIAPVAEE \EAITVPNNRITVLGDGQVGMA CAISILGKSLADELALVDVLED K L K G G N D G S F Q H G \ S L F \ Q T P K \ I V G R I K D Y S G \ T A Q F * R I V V G N W Q G V R S A R R G K V R S N L V Q R N V N V F K
16403	46771	A	16500	2	406	
16404	46772	A	16501	2	394	
16405	46773	A	16502	1	399	
16406	46774	A	16503	74	464	FAFNMPPEKASAPAPKKGSKK AVTKAQKKGKRRKRSRKESY SVYVYKVLQVHPDGTISSKA MGIMNSFVNDIFERIAGEASRL AHYNKRSTITSREIQTAVRLLLP GIELAKHAVSEGTKAVTKYHQ
16407	46775	B	16504	84	832	
16408	46776	B	16505	201	829	
16409	46777	A	16506	1	804	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
16410	46778	A	16507	3	615	PECIIGIDILSSGQNP HIGSLTGR VRAIMVGKAKRKP LELPLPRKI LNQKQYRIAGGIEEISATIKDLK DAGVVIPTTSLFDSPIWPVQKT DGSWRMTVDYRQINQVATPIA AAIPDVASLLKQINTSPDTW/PI RPPISNGD*GVSGR*ACCLEPLA GPHR*ITSEASRILEQGP AIFCR* LLSF*ETALGLLLGFGGN*TFDY
16411	46779	C	16508	25	153	
16412	46780	A	16509	1	1317	
16413	46781	A	16510	1	1557	QVPGCIIGIDILSSWQNP HIGSLT GRVRAIMVGKAKWKPLELPLP RKIVNQKQYHILGGTVEISATIK DLKDTEAVTPTTSPFN SPIWPV QKTDGSWRMTVDYCKLNQVV TPIAAAVPDV/VSLLEQINTSPG TWFEWSPK/KALQQVQAAVQA ALPFGPYDPADPMVLEVSAD RDAIWSLWNA AIGESQRRPLGF WSKALLSSADNYS PFERQLLAS YVALVETERLTVGHQVTLRPE LPIMNWWLSDPSSHKVSGAQQ HWKCAVHT/IKWKWYIRDWA QAGLEGTS*LYWPRASRYQQG HQDLFILRDLPSQVFIRDKLME RRNRRTGRTEKARIWEVTDRT VRTWIGEAVAAAADGVTFVS PVTPTHFRHSYAMHMLYAGIPL KVLQSLMGHKSISSEVYTKVF ALDVAARHRVQFAMPESDAVA MLKQLS
16414	46782	A	16511	41	428	
16415	46783	A	16512	1	1026	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
16416	46784	A	16513	648	1886	LDPEVAWAKWQHSTVKGPQKQFAFSWQGGQYFTFTGLPQGYINSLSLCYNLIPRDLDRFSLPQDITLVHYIDDIMLTGSSEQLAYTLLDLLVRRLLCAKQWEINL TEIQEA STSVKFLRVQWCGACQDIPSK MKDKLLHLFPPTTKKASLFGFRRQCIPHLECGPEQEKALQQAQAAVQAAVPLERYDPADPMVL/V/ELTWLWPLLSAQFASGSDQH*ALHMAPFLGVVSQLPGGKLIILDIFHHGKGRVLFSL*TLTPDMGLPILHIMLLPRLPSVNSQNALS TVMPGFTGPGIKGWKWHHSPLVIH*QNFCLFP*HYVLLA*R S*FQRKEPCHQET*Q*FH*TGS*GCQLDTLGSCYF*VNKLRLRELQ CWLG*LTQTIKMKSVYYITEN CWMKRSPVKRRKILELEEA
16417	46785	A	16514	1	402	
16418	46786	A	16515	1	396	PTPRGERSVHVEIPRRVSGSAGHAQWAGPVRVARPOLNAQLE GWLSQVQSTKRPARAIAPHAGYTYCGSCAAHAYKQVDPSTIQ RFRYSYDESQGEIYRSIEHLDKMGMSIEQLDPVSFSNYLKKYH
16419	46787	A	16516	2	358	
16420	46788	A	16517	2	769	
16421	46789	A	16518	1	1017	
16422	46790	C	16519	54	294	
16423	46791	A	16520	159	245	GISVSCSMYL*PDRSAGYYGLF KDRKEK
16424	46792	A	16521	1	1227	
16425	46793	A	16522	1	2697	
16426	46794	A	16523	200	696	YGI VTPGSLCAGDKQPKKQEK NPVLVSPEFVDEALCACEEYLS NLAHMDID/IGPGGPAVPPPRA GPSSSVTPSGPVSPLQLGLWA VGRCLGIDPFCLVQPLPLPQASR SFTPLFCSGTLEDHSHCLRDVW ATFLGSWHSIVTKMSMDCATKW TAHYPKCVLCGC
16427	46795	B	16524	1	960	
16428	46796	B	16525	1	2183	
16429	46797	A	16526	306	1844	
16430	46798	A	16527	59	189	YNSGCLYGSQCSVRCRL*GVRN QVRSQQQAMMAMAILVNKKGG
16431	46799	A	16528	1	2034	
16432	46800	B	16529	1	855	
16433	46801	A	16530	1	834	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v-possible nucleotide insertion)
16434	46802	A	16531	65	172	
16435	46803	A	16532	321	429	
16436	46804	A	16533	460	647	
16437	46805	C	16534	529	804	
16438	46806	A	16535	3	433	
16439	46807	A	16536	1	484	
16440	46808	A	16537	511	681	QQGYTPFQSGSGRESFLASSSF WL/PGLPWLAAL*QALTPSSH SLLSYLCSLLFCHP
16441	46809	A	16538	51	634	PVPTFGLPARHTGAEKRRKNSG GEQLSKNNLYIRGLPPGGTDQD LIKLCQPYGKIVS/TRAFLDKTTI RCKGYGFVDFDSPAQAQKAVA SLKANGVQAQMAKLQERDPA\ GLSVSSLL/SMYEQELNMLK PFGHVISTRILRDANGVSRGVG FARMESTEKCEVVIQHFNGKYL KTPPGIPAPSEPLLCCKIADG
16442	46810	A	16539	1	759	
16443	46811	A	16540	74	352	
16444	46812	A	16541	1	747	GSAYVLYCYKKSVAKTNTVSYK AGLICRYPQEDYESFSLPESVPL FCLPMGATIECWPSNSKYPLPV FSTFVLTGASAEKVYGAIIQFY EPYSEENLTEKQRLLLGLTSAD GKSDSSKTIHTNKCICLLSHWPF FDAFRKFLTFLYR/YSISGAHV LPIEKHISHFMHKVPFSPQRPRIL VQLSPHDNLILSQPVSSPLPSG GKFSLLQNLGPENAVTLVFA VTEHKLIHSLRPSVLTSVTEAL
16445	46813	A	16542	319	969	
16446	46814	A	16543	131	342	NSDMGLNLGSALTG*PWVAIEF CCFGFFQIIIVFSCLLGWL*VAP HPNLPSSPAEYMDFREAQEGTD VIY
16447	46815	A	16544	1	1086	
16448	46816	A	16545	469	759	
16449	46817	A	16546	3	598	
16450	46818	A	16547	227	604	
16451	46819	A	16548	416	1814	
16452	46820	A	16549	763	867	
16453	46821	A	16550	1	1419	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, ~Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
16454	46822	A	16551	915	3125	SLAGMRLTGTVSGGEVRV/TAK AGARVGPPELVGRPLEGECWY FSGVSRTOAQQLLSPPNEPGA FLIRPSESSLGGYSLSVRAQAKV CHYRVSMADGSLYLQKGRLF PGLEELLTYKANWKLQNPLL QPCMPQKAPRQDVWERPHSEF ALGRKLGEGYFGEVWEGLWL GSLPVAIKVIKSANMKLTDLAK EIQTLKGLRHERLIRLHACVSG GEPVYIVTELMRKGNLQAFGLT PEGRALRLPLLGFACQVAEGM SYLEEQRVVRDLAARNVLVD DGLACKVADFLARLLKDDIY SPSSSSKIPVKWTAPEAANYRV FSQKSDVWSFGVLLHEVFTYG QCPYEGMTNHTLQIMRGWF FGCISRSEAVRRLQAEGNATGA FLIRVSEKPSADYVLSVRDQA VRHYKIWRRAAGRLHLNEAVS FLSLPELVNYHRAQSLSHGLRL AAPCRKHEPEPLPHWDDWERP REEFTLCKRKGSGYFGEVFEG WKDRVQVAIKVISRDNLHQQ MLQSEIQAMKKLRHKHILALY AVVSVDGPVYIITELMAKGSLL ELLRDSDEKVLVPSSELLDIAWQ VAEGMCYLESQNYIHRDLAAR NILVGENTLCKVGDFGLARLIK EDVYLSHDHNIPYKWTAPALAS RGHYSTKSDVWSFGILLHEMFS RGQVPYPGMSNHEAFLRVDA
16455	46823	A	16552	1	990	
16456	46824	A	16553	1	2847	MTAREHSPRHGARARAMQRAS TIDVAADMLGLSLAGEPHRACT GLQTTGYPGLDPSG*TRK*GRG MSALFL*TASAGA*~H*FSSSLVA GAPPG*CGNVQVF/WLAHAQA MGTNNPIFLSSIAFFQDSLINQM TQVKLSVYDVKDRSQGTVKS ESDRVGNITVIGWQMEEKSDQ RPPVTRSVDTVNGRLHPPAPT MHSLSHRHSKKNSNFRALALM VLPVDESLEALGIRSKYASLR KDTLLKSVFGGAICR
16457	46825	A	16554	1	327	
16458	46826	A	16555	259	3109	
16459	46827	A	16556	262	3159	
16460	46828	A	16557	1	1398	
16461	46829	A	16558	123	393	
16462	46830	A	16559	245	424	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
16463	46831	A	16560	1	531	
16464	46832	A	16561	2348	2775	
16465	46833	A	16562	373	555	LRIQVTFDDVAVEFTPEEWALL DTTQKYL YRDVML ENYMNLA SVGKSNITLLGMVACTCS
16466	46834	A	16563	165	457	
16467	46835	A	16564	310	349	K*TMK*EMGKFK*FY/YLEQED YANANALLSPAPALPKEKRTDS NGRVYFVNHNTRITQWEDPPRS QQQLNEKLPPEGWEMRFTVDG IPYFVDHNRRRTTTYIDPWSTRP
16468	46836	A	16565	1	2217	
16469	46837	A	16566	1402	1860	
16470	46838	A	16567	461	696	KRMCFCTLS SARSSSGSMYMSC RICCSMPFPSSVFRSISRYSR AAFWAWTETRLCWQAAMP RQ QPPGLLHQWTTSP
16471	46839	A	16568	1	601	
16472	46840	A	16569	468	1213	
16473	46841	A	16570	2	365	EGCFQKIKLDHILSPPPMPFWK CSNPDVAFGPGKSLKYKRQLS* DGRQLRRGSLGALTGRVLLP NPVAGQAWPASAETSNLVGMR SQALGQSAPLSTASLPCVSKCW ENIPPMWNCPPIK
16474	46842	C	16571	220	408	
16475	46843	A	16572	840	1091	QSLQHDVTL*VPVLLSYPEPAPS GHGLLRGSQAIAL*TI PADPAGT YLKTR EPTLGQCTVPLPAPHLS VDTVCRCLSSSVWPQ
16476	46844	A	16573	1	1356	
16477	46845	B	16574	1	1084	
16478	46846	A	16575	2	526	QPRGKKFSKKNKPRKQNFPTPKH MRVVLPPF/PPLKFFIFPKGLKFL EGGCPNISPPQKKGSLPKIPR*V LIRPPIRKKLFPCTARVKLGPPQ GSFKTAAPSSSSP*SADPVYLAG K/PRQSSSPGGTGGLNPPRRRLQ PQPHPGPSWHSSSRGPGGHP R RESAERSRCASGNPGGQ
16479	46847	A	16576	36	167	RQLFENTQSDETKQEQNKQNK K*STATESRKVPQIGKSKSYWP
16480	46848	A	16577	171	527	
16481	46849	B	16578	1	471	
16482	46850	A	16579	1	294	
16483	46851	A	16580	185	299	GLQYLKKGKSLKVKRGKVVW*S ACCKKKGAALGTVASPL
16484	46852	A	16581	3	414	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
16485	46853	A	16582	462	928	WGVPGLPGRHLLPLSPQPPPSW LSILYVSWAALTCFLNSGESTA AKFFCPNLSAISYHTEAIPITWQ GVHLSWAFNGGAPDIFSGPGGL L*PA/PQP/DLALGALFGAGVLV ITTVAGGITTLLFIQHHTTQEI H*QIVQWIKTIL*ILATVSVVIG
16486	46854	A	16583	1	654	
16487	46855	A	16584	66	323	RVSLEIHVIQKRRPHHLSLSFW TRMKTFRRRK/WGEAEESATDT TSETNKVGTGVFVLSLVVPL VRNLAPGVVLGNICKHFPVC
16488	46856	A	16585	1	1530	
16489	46857	A	16586	615	873	FVFLWSLMMVMYRWGFGVAV LSVC*FSF*QSGPSAAGLLEFAG GPFQTPFAWVSVEAAEQRIML NSKRCCVIVPLVVSQRGTRP
16490	46858	A	16587	286	626	PCKLFPCNCTCYSRV*DFFRVA GKRSLNNNTYSWVNTSMLVPR VAFACGFPQLQAAVLCVHLLG SPILGAADSSVTPPFCWMANAH ICGLQLQNTLSFAEPIVLGQEH QLS
16491	46859	A	16588	226	489	PYLSVIFFDYGINEEQCQRPIQ GDGQNFHRHNGWIKINPSCISF AIFFPFGAEKNMWSTPVEAFN LLST*AF*LFGYKCTLVISS
16492	46860	A	16589	1	1344	
16493	46861	A	16590	1	257	
16494	46862	A	16591	73	374	ESETEHKRPGKHSKPRSCNMCG QWAFHASLTVSYCLLTWCNET CSGDGCEGGMRIIDPPVYSQTR FFITLL*LCFPGAGQPAYFCTQ TQCHVETPRVSQ
16495	46863	A	16592	1	666	
16496	46864	A	16593	95	1840	
16497	46865	A	16594	1740	2026	
16498	46866	A	16595	39	487	SRLDPRVRLFRQFCETPRGLEC YIQFLDSVAEYVTPDEKLGEK GKEIMTKYLTPKSPVFIAQVGQ DLVSQTEEKLLQKPKELFSAC AQSVEHYLRGEFFHEYLDMSFF DRFLQWKWLE/RVCACQVRAT GKMYACSRLEKKRIQKRK
16499	46867	A	16596	1	591	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
16500	46868	A	16597	71	1994	EQEQRGRQGGLLAPPAPAAAA AARAAAAAAAPQALTAPPAG SVADRRLSMELENIVANTVLLK AREGGGGRKRGKSKKWKELK FPHISQCESLRRITDRDYCRVC DKQPIGARLLFRQFCETRVPGLEC YIQFLDSVAEYEVTPDEKLGEK GKEIMTKYLTTPKSPVFAQVGG DLVSQTEEKLLQKPKCKELFSAC AQSVHEYLRGEFPHEYLDMSFF DRFLQWKWLERQPVTKNTFRQ YRVLGKGGFGEVCACQVRATG KMYACKRLEKKRIKKRKGESM ALNEKQILEKVNSQFVVNLAY AYETKDALCLVLTIMNGGDLK FHIYNMGNGPFEEERALFYAAE ILCGLEDLHRENTVYRDLKPEN ILLDDYGHIRISDLGLAVKIPEG DLIRGRVGTGYMAPEVLNNQ RYGLSPDYWGLGCLYEMIEGQ SPFRGRKEKVKREEVDRRVLET EEVYSHKFSEAEKICKMLLTK DAKQRLGCGEEGAEEVKRHPF FRNMNFKRLEAGMLDPFVFPD PRAVYCKDVLIDIEQFSTVKGVN LDHTDDDFYSKSTGSVSIPWQ NEMIETECFKELNVFGPNGTLP PDLNRNHPPEPPKGLLQRLFK RQHQNNSKSSPSKTSFNHHNS
16501	46869	A	16598	1	963	
16502	46870	A	16599	192	609	RPKGARELRLHPGPRYGRSTSPQ NCPWARPGCLHEAL*GWKICL HCKCPQEEHMTVMPLMEKKT ISKLMFDFQRNSTDDDSGCAL EEYAWVPGLKPEQVHQYYS LPEEKVPYVNSPGEKLRKQLL HQLPPHDNEV
16503	46871	A	16600	1	915	
16504	46872	B	16601	30	820	
16505	46873	A	16602	99	248	RLEKHINCSRVI*SWAASPGLTA AAYRVTLNPPGTFLGVAKVG QYTFT
16506	46874	A	16603	1	717	
16507	46875	A	16604	271	556	TAACLQSHHFKSSGQLSFERKW PKVGVTITRSIASLLSGPVGLIHH LAFSAHVPREGPTTPWNYFPRV AAP/RRWTPGEHARTTTGLGAA PCVLLWA
16508	46876	C	16605	135	341	
16509	46877	A	16606	125	226	
16510	46878	A	16607	194	547	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
16511	46879	A	16608	2073	2338	
16512	46880	A	16609	1127	1282	
16513	46881	C	16610	1	2094	
16514	46882	A	16611	523	706	QHPLPNPCCHQPFHLCRLRR*TL HCLRRQ*WPPLRQLPGKIMLIL LRSHPOHPCLLLDLQLD
16515	46883	B	16612	190	805	
16516	46884	B	16613	90	2812	
16517	46885	A	16614	44	216	RCRRRLIPHPRRLSPVVRIRIQVP Q/VQPGAGPSRPGHTRDP/IGAA AAHCPCPGDSGAH
16518	46886	A	16615	1	1107	MTEEPLQALVLSAVLLYQEAY VRRSLTALGLDTFANFAHFSEM QPLSDAPCGLVTGVTRPLVAYS VEVGFTIICGLSLASGNISGWC QLYLLLTQCRGAATLWDSGM GGGRQSSRQTSVPRWTLDSKCI PGPKLTTRPQMDTKALGGQQA HVEHQTHEDIRPQVDTQAPGG HKALGEGQDPVGHQASVGYSP QVPQDSLGQALAGQATPEIPLG LQLHTVLVQEIQLIEAQTAP GPCAEVRALPAPAAEPEPAWEE APPERALELEGAPAKDQTNEEL PEITA/PYC/EPLALTLELKAWE RKVGGGRGDQHSPPSQQLPCCP*S WARWQTCRQRAGHLAWPPVP RCREASLIH*NHSPAAAGPFILL
16519	46887	A	16616	1	792	
16520	46888	A	16617	1	963	
16521	46889	A	16618	1	378	
16522	46890	A	16619	1	494	MKPRTLAVSVTVLKGGSVRVC SFWCSDVFRVSSFVWVRGLAD SGVKLRITFAVSVTPLKAARLEL FVPPGGFVVSLSAGVKLQPFV SVTAHKGSDPKSEKQDQLLQ RGKEQSYHTGEGHPSRLP/PAG SGSLLLSYLAAPTSC*LVQPSG LF*QGADWCYINP
16523	46891	A	16620	137	262	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=unknown, *=Stop codon, /-possible nucleotide deletion, /-possible nucleotide insertion)
16524	46892	A	16621	1	2786	EVSLREATQRKLRRFSELRGKL VARGEFWDIVAITAADEKQELA YNQQLSEKLRKRELPLGVQYH VFVDPAGAKIGNGGSTLCALQC LEKLYGDKWNSFTILLIHSDEW KKKVSESYVITERLEDDLPIKE KELTELNRNIFGDEAFSKVNLN YRTENGLSLLHLCCICGGKKSH IRTLMLKGWRPSRLTRNGFTAL HLAVYKDNAELITSLHSGADI QQVGYGGLTALHIAITAGHLEA ADVLLQHGANNVN
16525	46893	A	16622	174	722	
16526	46894	A	16623	1	1554	
16527	46895	A	16624	1	843	
16528	46896	A	16625	2	745	ECWDGEHDIETPYGLLHVVRIG SPKGNRPAILTYHDVGLNHLKLC FNFTFNEDMQEITKHFVVCHV DAPGQQVGASQFPQGYQFSPM EQLAAMLPSVVQHFGFKYVIGI GVGAGAYVLAKEFALIFPDLVEG LVLVNDIPNGKGWIDWAATKL SGLTSTLPDTPVLSHLFSQEELVN NTEL VQSYRQQIGNVVNQANL QLFWNMYNSRRDLINRPGTV PNAKTLRCPVMLVVGDNAPAE DGVVECNKS
16529	46897	A	16626	3	949	
16530	46898	A	16627	1	633	
16531	46899	A	16628	2	1324	
16532	46900	A	16631	1	591	
16533	46901	A	16632	138	832	
16534	46902	A	16633	55	586	IFVHPTPAASTMPKFDNPEIKV VYLRCCTGGEVGSALAPKIGP LGLSPKKVGDDIAKATGDWKG LRITVKLTIQNRQAQIEVVPAS ALIIKALK/EPDRDRKKQKNIKH SGNITFDEIVNIARQMRHRSRLAR ELSGTIKELGTASVGCNVVDG RHPHDIIDDINS GAVECPAS
16535	46903	A	16634	1	735	
16536	46904	A	16636	3	346	
16537	46905	A	16637	57	649	GPRRAYGGRMAGGGDLSTRR LNECISPVANEMNHLPAHSHDL QRMFTEDQGVDDRLLYDIVFK HFQRNKVEISNAIKTFPFLEG LRDRDLITNMFDSDQSCRNL VPVQRVVYNVLSLEKTFNLPV LEALFSDVNMQEYPDLIHIYKG FENVIHDKLPLQSEEEKEREERS GLQLSLEQGTGENSFRSLTWPP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, ^possible nucleotide insertion)
16538	46906	A	16638	1	1665	
16539	46907	A	16639	348	1534	
16540	46908	A	16640	1	627	
16541	46909	A	16641	1	1343	
16542	46910	A	16642	76	479	IRAVSRSRERPGSRRLYLQAC*G GGAFPPGP*SAEISRLVRSNHLGG YSCT/EGGGGCRKGSCLLQHS LL.WHSCLLPASKNTVCSKDLG GCSCQTQESRAPACSWSPRTQGG SASSHDLGSCRNA WETPSRQLG RSW
16543	46911	A	16643	130	675	
16544	46912	C	16644	118	420	
16545	46913	A	16645	1	987	
16546	46914	A	16646	1	494	
16547	46915	A	16647	360	1510	
16548	46916	A	16648	375	2187	VTAAAAATAMAESGESGGPPG SQDSAAGAEAGAGAPAAAASAE PKIMKVTVKTPKEKEEFAPVEN SSVQQFKEEISKRFSHTDQLV LIFAIAGKILKDQDTLSQGHIDG LTVHLVIKTQNRQPDHSAQQTN TAGSNVTTSTPNSNSTSGSATS NPFGLGGLGGLAGLSSGLNTT NFSLEQSQMQRLLSNPMMV QIMENPFVQSMLSNPDLMRQLI MANPQMQLIQRNPEISHMLN NPDIMRQTLELARNPAMMQEM MRNQDRALSNLESIPGGYNALR RMYTDIQEPMLSAAQEFGGN PFASLVNTSSGEGSQPSRTENR DPLPNPWAPQTSQSSASSGTA STVGGTTGSTASGTSGQSTTAP NLVPGVGASMFNTPGMQSLLQ QITENPQLMQNMLSA PYMRSM MQSLSQNPDLAAQMMLNNPLF AGNPQLQE QMRQQLPTFLQQM QNPDTLSAMSNPRAMQALLQI QQGLQTLATEAPGLIPGFTPLG GALGSTGGSSGTNGSNATPSEN TSPTAGTTPEGHQQFIQQMLQA LAGVNPQLQNPVRFQQQLEQ LSAMGFLNREANLQALITGG DINAAIERLLGSQHHSISVS
16549	46917	A	16649	269	440	
16550	46918	A	16650	469	746	RLNLPGLPCAGTSILFAVLMEAI GVSCIRQAGGGHVASHIY*GLM /PALAL*DTPEPRNPALPETCLC GSGPQSQMQGHQTSLLSSPGTG LSF
16551	46919	A	16651	1	1026	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
16552	46920	A	16652	719	906	
16553	46921	B	16653	1	1971	
16554	46922	A	16654	200	239	
16555	46923	A	16655	109	177	
16556	46924	A	16656	1	1542	
16557	46925	A	16657	1	453	
16558	46926	A	16658	2	487	
16559	46927	A	16659	1	1260	MEDAEGTVTLAVTLVARDLN CIQPTQTGPSGGIPEESIVIGDVSS MHVIAPEDLVPGQDVEVEDSDI DDPDPVRALPLQIHACGRVGF AHDWSEGGDPAADTLIDPSQ DARYLKCEGMQAPHNSNPVAQ KTEISYHIWIARIPREKSGKVTG TLCDLLKDLTVIHSLIPKQGCSD GLGVLVQGTFPQPGNTDCTC QVSAVEGKGEGMLQLASLRR VTIWAYGDSQERDLKTQLEKIT AIKDMKEMQEKEYRIMEKAHS RQRKQHHKGPERKEQAAIFAV LQPLVITRQTGSGVDPQKTPA DLQKRCRTVRRKTSQKQAVAS TLTKRITTQKLNKADHNSSPTR EQNCTENEFDELTEVGFRRWVI TNSSELKEHVLTCQKEAKNFDK RLEELLIQITSLEKNISDLMEL*S FALSFCVVILFVNVDATAFCWL VFLLTVRHLFCRSAGVFWGSTP DPVCLVITSGGCRTAKIAACSFL SGPLWCCFLCLEWAFSILYSFS CISFMSLIAVIFSNVWLRLSL
16560	46928	A	16660	1	799	
16561	46929	A	16661	1	969	MHVIAPEDLVPGQDVEVEDNDI DDPGQAKKTMEEQWTLVSLLS TSQQQGPVPPGSTASSATDKLS RWELTLLYSTTLFLAREAFRRA CLSGGTQRDWSQTLNLLWLT PLGVFWSLFLGWLWLQLEVPD PNVVPHYATGVVFLGLSAVVE LLGEPFWVLAQAHMFVKLKI AESLSVILKSVLTAFLVLWLP WGLYIFSLAQLFYTTVLGLCYV IYFTKLLGSPSTKLQTLPSRIT DLLPNITRNGAFINWEEAKLAW GFFKQFFLKQLITEGGRYVGG HFLNVLNFGDQGVYDIMNLI SLVARLIFQPIESFIYS
16562	46930	A	16662	1	1665	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 9,540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, /-possible nucleotide insertion)
16563	46931	A	16663	1	1521	MDVSSPPCVDGVSILPPLLIPRQ TGSQVLDLQQNPDTDLQLRVLT KRKTKNQKQKQHPHNSICTSPSS KTKEYTFFSVQHHYTSKIDHIV GSKAVLSKRRKTIEIITNCLPDHS AIKLELRKKLTQNHKTWQKN NLLNDYVWHNMKAIEIKMFF ETNKNKDTYKNLWDTVKAV CRGKFIALNAHKRQKERSKIDT LTSQLEKELEKEQTHSKASRRQ EITKIRAELEKIEITQKTQVQIHES RSWFFEKINKIDRPLAGLIKKRR EKSQKDAIKNDKLDITTDPTET QTTIRDYHKHLYAIAIKLENLEEM DKFLDTYTLPLRNQESLNRPIGT SEIEAIINSLPTKKKYRTRRIHSR ILSEVQGGAVLEVLAIRQEK EIKCIQLGKEEVKLSLFADDMIV YLENPTVSAQNLLKLSNFSKVS RYKINVQKSAQFLYTNNRQTES QIMSELPFTIASKRIKYLGIQLTR DVKDLFKENYKPLLEIKED/N KWKSI PCPRIGRINIM
16564	46932	A	16664	2	2315	
16565	46933	A	16665	1	912	
16566	46934	A	16666	1	912	
16567	46935	B	16667	199	619	
16568	46936	B	16668	64	1815	
16569	46937	A	16669	1	239	
16570	46938	A	16670	1	242	FREDGKTACGHEPSPVLLGLRL GLQPWG*GWGCSHGAGSAPDL VAGSAHSCGLWLPGLHHHPA QCLPALLCGHLCLSVQDQQNG LLGR
16571	46939	A	16671	58	505	ASSRTRPSTCLARGRRWFPQPL SGRQRQRGGRRGSRVG/YGTA QNSTLTSPAASASEATVSGHW PSTAPCCV/PAGAG/SATMWRSP A*AACGSAAWTSTWSRRSPGP GAAAGYGGVRTFCQPAGLTR/L ANRSTAGLCGWGLTSLCRETLE
16572	46940	A	16672	242	2952	
16573	46941	B	16673	474	2690	
16574	46942	A	16674	97	451	
16575	46943	A	16675	667	893	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, * = Stop codon, / = possible nucleotide deletion, v = possible nucleotide insertion)
16576	46944	A	16676	3	639	RIRVHPTPAAFMPPKFDPNKIG VGYLRCCTGGEVGATSSALAPKIG PLGLSPKKVGGDDIAKATGDWK GLRITVKLTIHNRQAQIEVAPSA SALIILKALKEPPDRKKLKLKL SGNITFDENGNCSTDMR/HRSL SRELSGTTKEILGTAQSVGCNV DGRHPHDHDDINSENDKQPRKS KMRTSFSQIPGHEHFHYLLLL QHVHCQLALTL
16577	46945	A	16677	350	984	VYLEVAPGGESRLPLSALGPQR IGPPGSCLPKKSWNIDICQRP G/DWKG*GLQVKLTHSRGTGQ APDCTRV/VLPSCP*FIQSPSRE PPKRPEKKPEKTFKHQLGIFTL NEICSTLLRQMR/HRSLSPKLS/ GTPLKEIPGGLPQSSWAGNV*W AAIPHDHDDIQQVWLWKCFAV SDIFIVTVGVKGGPPSVFTEISW EVL.EMVTGGVG
16578	46946	A	16678	252	964	
16579	46947	A	16679	1	182	
16580	46948	A	16680	275	639	
16581	46949	A	16681	376	418	
16582	46950	A	16682	1135	1591	
16583	46951	A	16683	3	420	AAKEIEVGGGRKAKFSQKIQV RLVRELEKKFGKHVVFIAQRR ILPKPTRKSRTKNKQKRPRRTL TAVHDAILEDLVFPSEIVGKRIR VKLDGSRLIKVHLDKAQQNNV EHKVETFSGVYKLTGKDVNF EFPEFQL
16584	46952	A	16684	1	879	
16585	46953	A	16685	2	691	HEEKAMFSSSAKIVKPNGEKP DEFESGHLPLGLELE/MNSD/L KASAQGT*ITAS*RLKLVGGCS ESLFH*SFVPRSLKLKTFPQKNP KVRA*LRRIKKKVPVGKAMS VLYPPSEGEFLPLSPTSEKARTK K*AKSRPPGARTLDKLVHDAH PLRDFGPFPSGNFWAKRIPRSNL DGQPGSIKVPFWTKAQQNQCW NTRVETFFLVSYK/KLTGGGC*F LEFPRVFN

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
16586	46954	A	16686	1	452	TLLVIPRKMRSVELQQTSTDL QLRDLTVRKKTNKRKATASTS QKGLHLHQNPICRSPTSKTKEVG FRRSVITNFSLEKEDVRTYHKE AKNLENRLDEWLTRINSVEKTL NDLKLKTMARDLHDACTSFN RRFDQVEERVTVTEDQIN*QTE SNSINFTKRSSTPKPHL/RSPTSK TKEVGFRRSVITNFSLEKEDVR TYHKEAKNLENRLDEWLTRINS VEKTLNDLKLKTMARDLHDA CTSFNRRFDQVEERVTVTEDQI
16587	46955	A	16687	1	618	
16588	46956	A	16688	280	353	SCNSIFARSVRACCS*VASSSFC C
16589	46957	A	16689	1	459	IKYSSPMKSTFVDPVDPVAVAV IYCLAAGLVIRIPFQVLVPLKEE KMLVLLNMDYYEMASLSLVTH RNEAPFSGRVRSSLPATEQSWM ENDFDKLTVEGFRRSVITNFSLE KEHVLTHHKEAKNLEKRLDKW QTRINSVEKTLNDLMELKTM* EEKMVLNMDYYEMASLSLVTH HRNEAPFSGRVRSSLPATEQSW MENDFDKLTVEGFRRSVITNFS ELKEHVLTHHKEAKNLEKRLD KWQTRINSVEKTLNDLMELKT
16590	46958	A	16690	2	403	LALSGEMTLVLFMLLAGGWVT HDKPEPMPRAATSGGTRKGKT KAALKDLIATWKEVCVSSPATE QSWMENDFDELTEVGFRRSVIT NFFKLKEYVLTHHKEAKNLEK MLDEWLTRINSVEKTLNDLME LKNMA*ELTEVGFRRSVITNFF KLKEYVLTHHKEAKNLEKMLD EWLTRINSVEKTLNDLMELKN
16591	46959	A	16691	1	676	
16592	46960	A	16692	1	1965	
16593	46961	C	16693	1	3075	
16594	46962	A	16694	78	152	CAAGFGLPVFY*GFLHRCSLGIL V
16595	46963	B	16695	1	904	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
16596	46964	A	16696	1	2026	EQEASYGRDAFAKAIYERLFC WVTRINDIIEVKNYDTTIHGKN TVIGVLDIYGFEIFDNNSEQFCI NYCNEKLQQLFIQLVLKQEQQE YQREGIPWKHIDYFNNQIIVDL VEQHKGIILDDACMNVGK VTDEMFLEALNSKLGKHAHFSS RKLCSADKILEFDRDFRIRHYA GDVVYSVIGFDKNKDTLFDQF KRLMYNSSNPVLKNMWPEGKL SITEVTRRPLTAATLFKNSMIAL VDNLASKEPYVRCIKPNDKKS PQIFDDERCRRHQVEYLGLENV RVRRAGFAFRQTYEKLHRYK MISEFTWPNHDLPSDKEAVKKL IERCGFQDDVAYGKTKIFIRTPR TLFTLEELRAQMLIRIVLFLQKV WRGTLARMRYKRTKAALTIIR YYRRYKVKSYIHEVARRFHGV KTMRDYGKHKVWSPPKVLR FEEALQTIFNRWRASQLIKSIPA SDLPQVRAKVA AVEMLKGQRA DLGLQRAWEGNYLASKPDTPQ TSGTFVPVANELKRKDKYMN VLFSCHVVRKVNRFKVEDRAIFV TDRHLYKMDPTKQYKVMKTIP LLQLTCLNWSNGKDQLVVFHT KDNKDLIVCLFSKQPTHESTRIGE LVGVLVNHFSEKRHLQVNV TNPVQCSLHGKKCTVSVETRL NQPPQDFTKNRSGFILSVPGN
16597	46965	A	16697	1	1665	
16598	46966	A	16698	1727	1908	FLFFYIC*RELYFQLCGQFVWNK CNVLLRRMYILLIWGGFEFCRYQ LGLLGAELNSVPGYHC
16599	46967	A	16699	1	384	
16600	46968	A	16700	1	636	
16601	46969	A	16701	1744	2283	
16602	46970	A	16702	194	368	
16603	46971	C	16703	62	205	
16604	46972	B	16704	1	1257	
16605	46973	A	16705	1	1077	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, /-possible nucleotide insertion)
16606	46974	A	16706	1213	1228	AQN*QTQRTSTPKPHLSSPSTK TKENDFDELREEGFRRSVITNFS KLKEDVRTHRKEAKNLEKRLD EWLTRINSVEKTLNDLMELKT MAQELRDTYTSFSSRFQVEER VSVIEDQMNDMKREEKFREL/K RVQRNEQSLQEIWDYVVKRTNL RLIGVPEKIQTIREYYKHLNAN KLENLEEMDKFLDITYTCPRLN QEEVESLNRPTVGTSEIEAIINSLP TKKVQDQADSQPNSTRVFKTV CISSLGHTTASADTDVQCQLPV TSLLEQGLSSKSAGFLDYAVQR LWLLGTEPL
16607	46975	A	16707	33	263	
16608	46976	A	16708	204	1756	
16609	46977	A	16709	760	821	TMRTGHGRKGN*QR/**PEST KNSNKFTRKNQTTPSKREWMK LETILSKLSQGGKSKHRMFSLI SGN*TMRTGHGRKGNITHWGL LWG
16610	46978	A	16710	1	879	
16611	46979	A	16711	311	514	KNAHHQWPSKKCKSKLQ*DTIS HQLWQSLKKSQETTGTMRKME TITLSKLSQGGKSKHCMFSLIGG N
16612	46980	A	16712	24	1268	AGLCAARARMRLFRWLLKQPV PKQIERYSRFSPLSIKQFLDFG RDNACEKTSYMFRLKELPVRL ANTMREVNLLPDNLLNRPSVG LVQSWDMQSFEELL*YENKSP DPQVLDNLFQVLKVRDRHND VVPTMAQGVIEYKEKFGDFPI STNIQYFLDRFYTNRISFRMLN QHTLLFGGDTNPVHPKHGSDIP TCNVADVVKDAYETAKMLCE QYYLVAPLEVEEFNAKAPDKP IQVYVYPSHLFHMFLFELKNSM RATVELYEDRKEGYPAVKTLV TLGKEDLSIKISDLGGGVPLRKI DRLFNYMYSTAPRPSLEPTRA PLAGFGYGLPISRLYARYFQGD LKLYSMEGVGTDAVIYKALSS ESFERLPVFNKSAWRHYKTTPE ADDWSNPSPSEPRDASKYKAKQ
16613	46981	A	16713	175	465	
16614	46982	A	16714	240	381	FFLSFPLQCQS*NQNLLPW/ICA KVCSTPEVSKTTNPLEGRNSG HI
16615	46983	A	16715	268	1524	
16616	46984	A	16716	1	378	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
16617	46985	A	16717	708	987	IQLPGHRSQGGVAGASHTDARQ QDPGNSHSDFVRIHSHLPCLER QDRRSAGHNGSATVPGTEACG RAYKAPAGHYHSGAGQSLPAA SHRSFSSP
16618	46986	A	16718	1	2052	
16619	46987	B	16719	1	606	
16620	46988	A	16720	1	541	QHQRKQKRLRAQONLSWEEI AKEYQNEEDSLGGSRVVCDI NKEMLKVGKQKALAQQYRAG LAWVLGDAEELPFDDDKFDIYT IAFGIRNVTHIDQALQEAHRVL KPGGRFLCLEFSQVNNPLISRLY DLYSFVRVPLVGEVIAGDWKSY QYLVE/SIRRFPSQE/KFKD/MIE DAGFHVKVYESLTSGVVAIHSG FKL*FLCLEFSQVNNPLISRLYD LYSFQGHPCGRGHRWRLEVL VPCREVSEGFRLRKEFKDHDRR CRLSTR
16621	46989	A	16721	526	933	
16622	46990	A	16722	191	468	
16623	46991	A	16723	2	677	GKVVHLERRGFHRTMEHLQKI LLLPVLSSSSSDP/STLSVSALV RMFSSADE*SVSEASSSEPSFS RRSSCSFGSEPSFASFSSFPDL ASLSSVFLFRAFSSSHVM*WL PSSS*VGS/STSARAQLPSYVPSF SVKTKSGLKSALRFFPKAFCL PSTMGPSSSSPESDSALHRLV ILDVWLQIKPRVRKPCRRSHF RKRAQPAVRPLTFRSLLVLR
16624	46992	A	16724	31	187	
16625	46993	A	16725	215	947	
16626	46994	A	16726	1	378	
16627	46995	A	16727	2	7567	GGGGARRQRGDAGGAETAP SEILSPAEESSGRSETLRRGT AAGRMATVVVEATE/PEPSGSI ANPAASTSPSLSHRFLDSKFYLL VVVGEIVTEEHLRRAIGSIELGI RSWDTNLIECNLDQELKLFVSR HSARFSPVEVPGIKILHHRSERF *ETVVLIQ/PFLMEGSSGTEVRL MITDAARHKLLVLTGQCFCENT GELLQSGSFSFQNFIEFTDQEI GELLSTTHPANKASLTFCPEE
16628	46996	A	16728	101	365	VITGQPNPTNPNLQATPDIQGT ARLGA/LHPRGIIFIGHQSA/R PHAPAPANPNKRTLFRPPPLSPP SPEPPSGQGAGLGARPALP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
16629	46997	A	16729	1170	2847	VASC*ENACKQNQRQKPCDYLNRCRKGWLQNSTTLHAKNSQ*TVLYKTIKFQLEKTTLKFIVNQKRAHIAKSILSQKNKAVGITLPDFKLYYKATVTKTAWYWYQNRDIDQWNRTEPSEIMPHIYNHLIFDKPDKNKKWGKDSLFNKWCWQNWLAICRKLKLDPFPTPYTKINSRWIKDLHVRPKTIKLTLEENLGNTIQDIGTGKDFMSKTPKAMATKDKIDKWDLJKLKSFACTAKE TTRVNRQPTKWEKIFTT
16630	46998	A	16730	79	536	
16631	46999	A	16731	232	771	
16632	47000	A	16732	3	339	
16633	47001	A	16733	279	416	
16634	47002	A	16734	1	1760	
16635	47003	A	16735	309	1718	
16636	47004	A	16736	10	417	IAIMNDTVAIRTRKFMNRLLE RKQMVIDVLHPGKATVPKTEILEKLAQMYK TTPDVIFVFGFRTHCGGGKTTGFGMIYDSLDAEK NEPKHRLARHGLYEKKKTS*K QRQERTNRMKKVRGTAKANV VAG*KPNE
16637	47005	A	16737	96	609	EKFMTNRLTSGETKWWI*CPFT PGRRTVP*AQKIRIEKLAQNVQ RPHPDVIFVFGFRTHFGGGKTTGFGMIYDSLDAEKEKMNPKHRLA/RHGPMEEGKRPSKKN GKERKNQN*KRVQGGGLAKGPLLAGAQKEEMKCLGSEIGSQ PKELKVLPMMLAVATVDFSQE
16638	47006	B	16738	1	1041	
16639	47007	A	16739	3	447	VSVPFIFIWLTCKSFLKFDLKSNTNVLQSL/GKFQSEVSKRQKLA TVFSSFTSTGLCQGSVAFISRCP PLASGSDSVWRGGSVFFSFRP*RLMISLLGSCVSHQFPEKLEF**KKMPYKIPTAHHQQQDDQQRG HEHKQSQPDVPHLG
16640	47008	A	16740	1	2385	
16641	47009	A	16741	1	639	
16642	47010	A	16742	1	993	
16643	47011	A	16743	127	426	CTDKITLVFGV*MLTPKPKD/CD DSAV*ELLWLTNQLSACVVHP GLYHLHVRISIWIPYRCLFSTMC GVCQTCTVAMQLDCLADSFNA VFKLTEAAGHMAR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
16644	47012	A	16744	3	374	SLRLQFYVYKISFQTQDQANKLS DSDASHLHPLAPCSEPTRTNVH TKLPRERPQSQIASPYLPPECPE RLKKQTNNKKKNW*EPSPHILPP RNAAAHTGQSRASKSLPAPPPT VSPRPRPGAGPT
16645	47013	A	16745	16	253	
16646	47014	A	16746	163	588	TFHAVLHIENAGYFNSIPFFRIL NHNPLTTVEDPYLFKLPAKYLY *VL*YSHESRDDLYSF*IFHQRL SILHLG*NVIMKF*LSY*KKVIGE EKN*EDV*WSRQPAGEREQC*R THIDLE/PCRHMEEYYLTCKAK GKRCSLF
16647	47015	A	16747	2	363	GTSQTLRLSLASACIFQPKVRL SREEIPLNLNY*SVSPNSNPNIHL YSRHTILTAMLTQLQGTVCVLLPI GLLVYPYPCPSPTGLQVTPFLPS PCGSGWPASFTYSSNRFNTNLL FCVFIL
16648	47016	A	16748	1028	1621	
16649	47017	A	16750	1	112	LGNTWG*QPCRLKIWLSLEFT KINVIRHMKKFKRL
16650	47018	A	16751	91	597	LKNRRRSRPSIRQSIGSTSISRW LTSFLTLYDHTADVQ*V*REFIP LKPRQ*ED*MFQSWLHAWGDT LEEAFEQCAMAMFGYMTDTGT VEPLQTVVEVETQDDDLQSLLFH FLDEWLYKFSADFFIP/GWGEE FSLSKHPQGTVEKAITYSAMQV YNEENPEVFVIIDI
16651	47019	A	16752	226	668	IYFFRLHAWGDTLEEAFEQCA MA/MFGYMTDTGTVEPLQTSRS /KTQGDDDLQSLLFHFLDEWLYK FSADEFFIPREVKVLSIDQRNFK LRFN/GWGEFSLSKHPQGTVE KAITYSAMQVYNEENPGSFC DHWTEKTTQKIKRLPTGKK
16652	47020	A	16753	3	942	
16653	47021	A	16754	3	419	SLYHNSSQKRHWTFSSSEQLAR LRADANKFRCKAVANGKVLP NDPVFLEPHEMTLCKYVEKRL LEFCSVFKAMPERSVVLTCAL ACKVDEFVNSNPQFVGNLRESP LGQEKALEQILEYELLILQQLNF HLIVHN
16654	47022	A	16755	312	537	
16655	47023	B	16756	209	1381	
16656	47024	A	16757	1	927	
16657	47025	A	16758	1	3987	
16658	47026	A	16759	2	175	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=-possible nucleotide deletion, v=possible nucleotide insertion)
16659	47027	A	16760	2395	2700	
16660	47028	A	16761	2	1118	
16661	47029	A	16762	26	1205	
16662	47030	A	16763	1	1594	
16663	47031	A	16764	1	595	
16664	47032	A	16765	1	1029	
16665	47033	A	16766	1172	1364	
16666	47034	A	16767	253	389	
16667	47035	A	16768	489	855	
16668	47036	A	16769	2	401	
16669	47037	A	16770	415	694	EAKLHLNLCDSMWLCCPTKGK RKQALEVLNILGPFLAPFWIAK SYFFTSPTQVSSL*FLRYKRKIK LQCRPKTCTNPSRTRSCALPGR FIPPF
16670	47038	A	16771	1	765	
16671	47039	B	16772	1	1095	
16672	47040	A	16773	82	311	KANSVDPFGFGVNLLEHLMAC NS/GTNLLNSKRLNNDICILASH TDVSIHARKCCLVVSCLLLRGL SILRSKESHC
16673	47041	A	16774	2	683	
16674	47042	A	16775	1	2703	
16675	47043	A	16776	1	555	DHNSSPAREQ/SSMENKFHELT EVGFRKITSLEKNINDLMELKN TARELREAYTSIKSRIDQAKESI SEIEDQLNEIKCEDKVREKRMK SNKQNFQEIWDYVVRPNLRLT GVPESDRENGTKLENTLQEIHQE NFPNLRQANIQEIQRATAQR QSSSRATPIHIVRFKFEIKEKM LRAAREK
16676	47044	A	16777	1	839	
16677	47045	A	16778	1	504	
16678	47046	A	16779	1	2367	
16679	47047	A	16780	1	1566	
16680	47048	A	16781	146	464	VTGWTNYEGNGRWRESRQLC GCCSRKSSSSWGSLMKGSGAP LRPGRMMWSGFRKCSDTQVM YS*R*LLETMTLASIMR*THTK* NALRKCSALKDCFLGKALTL
16681	47049	A	16782	1	1782	
16682	47050	B	16783	221	1075	
16683	47051	A	16784	1	627	
16684	47052	A	16785	1	1539	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 9/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
16685	47053	A	16786	1	1318	LSPVLSLSPDSMSFTTRSTFSTN YRSLGSVQAPSYGARPVSSAAS VYAGAGGLATGIAGGLAGMG GIONKETMQSLNDRLASVLDLR VRSLETENRRLESKIREHLEKK GPQVRDWSHYFKIIEDLRAQIF ANTVDNARIVLQIDNA/RLAAD DFRVKYETELAMRQSVENDIH GLRKVMDDTNITRIQLETEIEAL KEEL/LFMKKNHEE/EVKGLQA QIASSIGLTVV/DAPKF/QDLRQ DSWADIRVAQYDELARKEPRG A*TKYWFSADLRESTTVVTTQ FAEVGAA*DDASQSWRTYS SLGDPWGFWRKS*RASLEN SLREG*RPAYALT/QMEQASTGI LACTFESELGTDPGAEGRQAQ EYVALLNIKVKLEAEI/ATYRRL VLEDGEDFNLDGALDSSNSMQT IQKTTTRRIVDGKVVSETNDTK
16686	47054	A	16787	1	253	RVRTLKSTSTCLYWFEKDS/ DHPERSSP*YMSPSHYGSLVK ASITKPAFLKTSGRFLTCSQFC PLISKISDGFSLPPFST
16687	47055	A	16788	1	276	AAAAGPPGPLVMFTYRERVSG LRSVHLRASHTDARLRQEPT ERLQFHSSGLLIRFSRETEPIGV YIKED*EEWAYKMMVFAKSHD LPFAN
16688	47056	A	16789	1	203	LLHTSTKNELWQ*GKRDPVIF YTQYLF*EKTRK*NRQAGSL ALGPKPGLRLPGLNPVVENQFI
16689	47057	A	16790	8	361	RGLDGGQGRDGSSSGGGGGR RRRCLLLAPAPAVIRASGRGP R*DCWRAGCA*AWRPC/RLAR RMWTLRSLTRSLYVNMSTSGP GGPAAAGGRKENHQVARKR LNVCVFTRSVSETA
16690	47058	A	16791	674	1076	VQLFRSAGSRDHRFLGRGRN KQTKTLTYPTIPCSLKYQRKQN GSLWLTSRMPSSVFCTLTSPFS LPLRISQTTHPNLRGPSCPKGLG IALISLVRHWLKI*ATSQVQAL WSFSMWMIYFWL/PVQKPHASR
16691	47059	B	16792	296	1470	
16692	47060	A	16793	1	334	
16693	47061	A	16794	718	2541	
16694	47062	A	16795	2	406	
16695	47063	A	16796	74	464	
16696	47064	A	16797	159	610	
16697	47065	A	16798	1	273	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, v=possible nucleotide insertion)
16698	47066	A	16799	1	543	
16699	47067	B	16800	1	873	
16700	47068	A	16801	1	558	
16701	47069	A	16802	27	136	
16702	47070	A	16803	89	363	
16703	47071	A	16804	579	994	
16704	47072	A	16805	129	362	PKIIQPRRATTRFTSINGWRICPS IPCPEATINRRRCVKVDSVTCH LLTQR*YKSSKVQERC*SCRIQG QKISDCY
16705	47073	A	16806	878	1811	
16706	47074	A	16807	1	843	
16707	47075	C	16808	19	231	
16708	47076	A	16809	1	1650	
16709	47077	A	16810	3	404	
16710	47078	A	16811	279	428	
16711	47079	A	16812	3	507	
16712	47080	A	16813	1	1128	
16713	47081	B	16814	1	567	
16714	47082	A	16815	3	1206	GSEGGAGPGGAAATAAAME DEMPKTLTYVGNLSRDVTEALIL QLFSIQIGCKNCKMIMDTAGN DPYCFVEFHEHRHAAAALAAM NGRKIMGKEVKVNWATTPSSQ KKDTSNHHFHVFGDLSQITTE DIKAAAFAPGRISDARVVKDMA TGKSKGYGFVSFFNKWDAENA IQQMGGQWLGGRQIRTNWATR KPPAPKSTYESNTKQLSYDEVV NQSSPSNCTVYCGGVTSGLTEQ LMRQTFSFPG/QIMEIRVFDPKG Y/SFVRFNS/HMESGRHMAIVSV NGTTIEGHVVVKCYWGKETL/D MINPV/QQONQIGYPQPYGQWG Q/WYGNAQQIGQYMPNGWQV PIAYGMYGQAW/ESSQGFNSDT VFLAPWDGDPNFGSCNRLQQQ NGSLLPNRPSGYRVAGYETQ
16715	47083	A	16816	1425	1564	
16716	47084	C	16817	151	339	
16717	47085	A	16818	67	373	FCDCHHIFILMFKSPHIWPVGIFS SWLLCFFWACLHHSLSIALLLSC TKRYSGLILYFLCSSFEITVSSKS SVSF*RRMVFRNQVLGSRACCC C*GVAAPRPPF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
16718	47086	A	16819	1	799	MGPHWLWLHLALVLLPPSALL LPSCEKGVLRVRFYHEKWIYV HKESTKERHGYCTLGEAFNRL DFSSAIQDIRRFNVVVKPLLP KFQRLNAITKDRQRSSSGVQLP HAGQPQAGADPTQDERRQVAGD TPGDPRALAGGQVVDRTYPGS YEASGRPGLQLALAIEDLLRDS AIGCTFCDCRCPVGAQRILAH LALAAPGAEKREVVKLLLVAY VRRRPGKNLTQNCQPAAGYI PPGHQ*AASAHARSWKNQPP PRVLIGSA
16719	47087	B	16820	28	438	
16720	47088	A	16821	366	793	AWVEQSKVLKEGGIQLLLTIV DTPGFGDAVDNSNCWQPGINYI DSKFEDYLNESQVNRQCMQPG NRVHCCLYFIAPSGHGPLHN*R LPPSGRIG*YMFVTTWHCLLLR LKPLDIEFTKHLHEKVNIPLIAK ADTLMP EEC
16721	47089	C	16822	228	374	
16722	47090	A	16823	291	604	AWELEKSHLRRLDPSHNINIR VEPKF*SKYGGVQLLLTIVDTP RFGDAVDNSNCWQPVINYIDIK FEDYLNESRVNRQCMQPGNRV Q**LYFIAPSGHGPLHN
16723	47091	A	16824	148	498	
16724	47092	A	16825	1	595	DRPRITGGGKSGTEYPENLPTL KATIENKNSVLNTATKMKDVQ TSTPAEQDLEMA\SEGEQKRLE EYENNQPQVK\QIHSRDDLD IIQSSQT\SEGD\SLCCNCKNVI LLIDQHEMKCKDCVHLLKIKNT FCLWKRLLIKLDNHCEQLRVKI RKLKKNASVLQKRISEKEEIKS QLKHEILELEKELCSLRF\IQQE
16725	47093	A	16826	1	828	
16726	47094	A	16827	1	540	
16727	47095	A	16828	295	460	
16728	47096	A	16829	2	1355	
16729	47097	A	16830	650	1184	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, * = Stop codon, / = possible nucleotide deletion, \ = possible nucleotide insertion)
16730	47098	A	16831	725	2368	AVDIIKEIKHPQKHKKLPALQRL PFPLREETIPCNVGFPRCEPCL AEVYMCLEMLKDEKKGCMN KSGAGENPQERTAQKRKFPSP HSSNGHSPQDTSTSPIKKKKK GLLNSNNKEQVKQPLECIETQS KAMTMTLIEQLSYLLKFAIQKM KQPGVRRKLKVPVLEQHPDYA EYIFHPMDLCTLEKVGRLQMY GCTEAFADAKWILHNCIYNG GEWLRTQIAKVVIKICEHEVCV SQVCECYLAACQKRDNWFCF PCVSWIYDSACQPV*WKLVIQ MFLPM/WKADIL/RGEEG*YTSE LIGWL*SLSCDCSAGTSISHPSD SD*RWLTEHEGRRVSWPVNNC YLMSKEIPFSVKKTKSIFNSAM QEMEYVYENIRKFGVFNYSPP RTPYTPNSQYQMLLDPTNPSAG TAKIDKQEKVKLNDFMTASPKI LMSKPVLSGGTGRRLSDMPR SPMSTNSSVHTGSDVEQDAEK KATSSSHFASSESMDFLDKSTG QLRAGERGGGPLDTGVSHGCT I.GGPKQVSIKQASVLQDTMN
16731	47099	A	16832	2	164	PSTLRAEAWPP*NGSPVPLASS QASSSRSGPTSCIPRYPVASPE RLPLPTAA
16732	47100	A	16833	51	498	
16733	47101	A	16834	1	531	
16734	47102	C	16835	257	358	
16735	47103	A	16836	63	193	SGRLAPHTSRRTSANCSDDAKS SDSCSPSRKT*WSGRNTNRIH
16736	47104	A	16837	1	834	
16737	47105	A	16838	258	545	CQNPQILASPSTKDLMLGRNT NKDTLKACLARVVKRRSECSQ KPAS*MCTERNPTSMREVDLE RKYA VLYQLPFD*AVLKLMLQ FMNLRKEGM
16738	47106	A	16839	66	476	
16739	47107	A	16840	1	1362	
16740	47108	A	16841	1	747	
16741	47109	A	16842	522	687	
16742	47110	A	16843	112	861	
16743	47111	A	16844	87	472	TVTFQCRFGKMLPLEKAFASP QELPSAGSAHAGVSSRSSRK NPRPSLRGPLLTLEFSRLRFREF VYPEAAGPHHTLARLDLCRQ WLMPEARSEQMLELLVLEQF L/SILPDKVRPVVVAQYPS
16744	47112	A	16845	1	393	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *~Stop codon, /~possible nucleotide deletion, ~possible nucleotide insertion)
16745	47113	A	16846	621	1099	
16746	47114	A	16847	1	453	
16747	47115	A	16848	209	1175	
16748	47116	A	16849	1	546	
16749	47117	A	16850	187	421	LGESSQ*GSP/PPPTGGCGPATG Q*PLGQSFRKELAAIFAVSQY SLVVP/PGMGTEATGIWSRPPA NGNSPTVEWHIK
16750	47118	A	16851	3	1654	
16751	47119	A	16852	166	465	
16752	47120	A	16853	1	558	
16753	47121	A	16854	51	380	RNNLLLLTHHFVLIQFLIPRKET KYYLVITP/PSLSINVLNSFFYYS PESLNDNTNCHHEADTPWR*F LAIFEGFLNIAHQMQNMPFLL WKQVPETLVIQQQLPRIN
16754	47122	A	16855	3	550	
16755	47123	A	16856	1	462	
16756	47124	B	16857	1	2811	
16757	47125	A	16858	3	514	ASGTAPEIQARPTRPRKRKRK LLPL/TKAEAKAKALKAKKAVL KGVHSHKKKKIRTSPTRRPKT LRLRRQPKYPRKSAPRRNKLDH YAIKFP/TTESAMKIEDNNTL VFIVDVKANKHQIKQAVKKLY DIDVAKVNTLIRPDGEKKA YVR LAPDYDALDVANKIGII
16758	47126	A	16859	73	396	FFQSPKKNCSVWWNCAEVLL KYKTGETNDFELLKNQLLDPDI KRLPWLNRSQTVVEEYLAFLG NLVSAQTVFLRPLCSMIASHFV PPRVIKEGDVDVSDSDDEDD
16759	47127	A	16860	132	357	YVSKFAGRLSSSSSESTSPS LMITRGGTKWGSNHAETRSEE NSLC*YKITKKSQILFHYCFDY STKAISI
16760	47128	A	16861	380	597	
16761	47129	A	16862	179	280	QRDIKSCVQILQWEGSTRPFTN E**YMANVRNS
16762	47130	A	16863	2	175	
16763	47131	A	16864	178	374	
16764	47132	A	16865	386	2120	
16765	47133	A	16866	887	1104	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, /-possible nucleotide insertion)
16766	47134	A	16867	1	708	MEVAALEHLDRRLREKVKQQN ALRHQVVLQRRLLEELQLQHS LRLLLEMAEAQNRHTEVAKTMR NLNRLKAKQMKAEAEHITS VYLQKAYLMDESLNLENRLD SMEAEVVRTKHELEALHVVNQ EALNARDIAKNQLQYLEETLVR ERKKRERYISECKKRAEEKKLE NE/LHGAQADPGSDLNPRADPP RAPAATVRRHHPGPACQGGG AAAALEHVPDGGDLWQGGGR HWH
16767	47135	A	16868	1	1327	
16768	47136	A	16869	1	1776	
16769	47137	A	16870	1	397	
16770	47138	A	16871	1	1974	
16771	47139	A	16872	1	336	
16772	47140	A	16873	3	661	GRGGHNFAPNLARSASVTSGL GGPPAAVMVGS.LNCIVASQN MGIGKNGDLPWPPLRNEFRYF QRMTTSSVEGKQNLVIMGKK TWFSIPE/RRNRPFKG*EFNLVL SRELQGNLPQGAHFLRSRLDDA LKLTEQPELANKVGMMVW/IVG GSSNYKESMNHSSSLKLFVTRII QDFESDTFFPEIDLEKYKFLPEY PGVFFDVQEEKGIKYKFEVHEK
16773	47141	A	16874	38	755	ALKTCVSNQPDADKDNAGSSGH LRTLSPVVSRSCLKEEERRRRR RMKRRQRSRRRRSRRRRMRRR RRSRSSRRRMKRRRRRRMKR RSSFILMYFFMLLLSGIPLLYME VIMGQWLHVDNIRVWKQLVP WLCMSY/SSQSVCASVSLYNS THISWNFFYSFAHPLPWHCHPLV KNISVTDWAHQYFLYHTTLHA SDHSEAAEALVPNRSLGCLLG RDHRDLDFKPEIRRAHTGGAR
16774	47142	A	16875	1	1830	
16775	47143	A	16876	2	1142	
16776	47144	A	16877	1	435	
16777	47145	A	16878	1	963	
16778	47146	B	16879	247	1092	
16779	47147	A	16880	1	1653	
16780	47148	A	16881	1	2268	
16781	47149	A	16882	301	555	
16782	47150	A	16883	1	630	
16783	47151	A	16884	731	834	
16784	47152	A	16885	1	2277	
16785	47153	A	16886	45	2446	
16786	47154	B	16887	625	696	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
16787	47155	A	16888	193	315	WPGGGYSLLCFWCPLSFAGAA G/W*PPPGHH*PYSKQEHYRT NSDTLIFLSSRTLVLQGS*GIKV AGSEGPKYNE*PRNPVLPCLL HLFGC
16788	47156	A	16889	1	588	
16789	47157	A	16890	2	229	
16790	47158	A	16891	1	502	
16791	47159	A	16892	516	576	
16792	47160	A	16893	144	435	
16793	47161	C	16894	1	996	
16794	47162	A	16895	424	632	
16795	47163	B	16896	446	1944	
16796	47164	C	16897	207	470	
16797	47165	A	16898	1	396	
16798	47166	A	16902	1	585	
16799	47167	A	16903	141	906	
16800	47168	B	16904	99	276	
16801	47169	A	16905	1	756	
16802	47170	A	16906	1	383	
16803	47171	A	16907	1	582	
16804	47172	A	16908	3	615	PECIIGIDILSSGQNPHIGSLTGR VRAIMVGKAKRKPLELPRKI LNQKQYRIAGGIEISATIKDLK DAGVVIPTSLFDSPIWPVQKT DGSWRMTVDYRQINQVATPIA AAIPDVASLLKQINTSPDTW/PI RPPISNGD*GVSGR*ACCLEPLA GPHR*ITSEASRILEQGPALFCR* LLSF*ETALGLLGFGGN*TFDY
16805	47173	A	16909	3	415	PVK/VGA*GGQVINGVLAQV*L TVGPVGPRTHPVVFVPPECRIG RDILSSWQNPHTGSLTGRVRAF MVGAKAKWK*ELPLPRKTVNQ KQYRIPGGIAEIS/A/TIKNLRG VVIPTTSRFNSPIWPVQKTGDS W*TAADY
16806	47174	A	16910	232	633	
16807	47175	A	16911	1	1677	
16808	47176	A	16912	328	381	LLKLQH*MQSPYLVGPSQ
16809	47177	A	16913	3	811	
16810	47178	A	16914	1	1125	
16811	47179	A	16915	1	1191	
16812	47180	A	16916	113	485	
16813	47181	A	16917	1	357	
16814	47182	A	16918	12	398	
16815	47183	A	16919	498	595	TEMASTTTCT/RFHDEYQLFEEL *KGAFSVNGT
16816	47184	A	16920	5	367	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, /-possible nucleotide insertion)
16817	47185	A	16921	190	2005	VLYPLHLGTGTGKGAGGASSG EEGSEARRRRIGGLWGRRPHA TLSGHLPSRPAPAHTPSRASYFR TRKVRALGDSAAGVPVGLAA RLASGSPRSQPGHSPGPEMAS TTTCTRFTDEYQLFEEALGRGAF SVVRRCKMKTGQGYAAKIINT KKLSARDHQKLEREARICRLK HPNVIRLHDSISEEGFHYLVFDL VTGGELFEDIVAREYYSEADAS HClQQILES VNCHLNGIVHRD LKPENLLASKSGAAVKLADF GLAIEVQGDQQA WFGFAGTPG YLSPEVLRKDPYKPKVDMWAC GVILYILLVGYPFWDEDQHRL YQQIKAGAYDFSPPEWDTVTPE AKDLINKMLTINPAKRITASEAL KHPWICQRSTVASMHRQETV DCLKKFNARRKLKGAILTTML ATRNFSAAKSLKKPDGVKEST ESSNTTIEDEDVKARKQEIIVT EQLEIAINNGDFEAYTKICDPGL TAFEPEALGNLVEGMDHFRFYF ENALSKSNKPIHTILNPHVHLV GDAAACIAYIRLTQYMDGSGM PKTMQSEETRVWHRRDGKWQ NVHFHRS GSPTVPKPPCIPNGK ENFSGGTS LWQNI
16818	47186	A	16922	1	288	
16819	47187	A	16923	318	458	
16820	47188	A	16924	1	578	
16821	47189	A	16925	803	1068	
16822	47190	A	16926	1	660	
16823	47191	A	16927	2	325	TSENNNNGPKR*IHSTESLYLLQ GSVYADHDYIGLPEIPGAYQA NILVEDATIGIVDNELLTSSKDR ELLEVRNTKISPLIDHSSLEKQ TFSLLDSSNQVLEYLS
16824	47192	A	16928	156	573	
16825	47193	A	16929	405	599	GLEPPQKPLVTSILQANPVPLP CGNSQSR* TSTRCWYEHLCQCTQ SHLQMQQYHEAYQSACALA
16826	47194	B	16930	1	1676	
16827	47195	A	16931	1	1125	
16828	47196	A	16932	27	818	
16829	47197	A	16933	1	4986	
16830	47198	A	16934	1	4401	
16831	47199	A	16935	153	370	SVLETCMSTAFVPVCHSSFKTA VLRISLS*ISAQGGPIDLFSQCHP SSSTGVSSNHRGSWDTPGQSL VVICL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
16832	47200	B	16936	47	501	
16833	47201	A	16937	49	1714	
16834	47202	A	16938	1	999	
16835	47203	A	16939	140	2029	FAARAGPGGSRARRGNKWAR MPYEIKKVFASLPQVERGVSKII GGDPKGNFLYTNCKCVILRNI DNPALADIYTEHAHQVVVAKY APSGFYIASGDVSGKLRWDTT QKEHLLKYEYQPFAGKIKDIAW TEDSKRIAVVGEGRKFGAVFL WDSGSSVGEITGHNKVINSDI KQSRPYRLATGSDDNCAFFEG PPFKFKFTIGDHSRNVNCRVFS DGNRFATASADGQIYIYDGKTG EKVCALGGSKAHDGGIYAIWS PDSHLLSASGDKTSKIWDVSV NSVSTFPFGMSTVLDDQLGCL WQKDHLISVLSGYINYLDRN NPSKPLHVIKGHSKSIQCLTVH KNGGKSIYISGSHGHINYYWD SETGENDSFAGKGHTNQVSRM TVDESGLISCSMDTVRYTSL MLRDYSGQGVVKLD/VQPKC/ VAVGPGGYAVVVICGQIVLLK DQRKCFSDNPGYEPEVVAHV PGG/DTVAIGGVDGNVALYSIL GTTLKDEGKLEAKGPVTDVA YSHDGAFLAVCDASKVTVFS VADGYSENNVFGHHAKIVCL AWSPDNEHFASGGMDMMVYV WTLSDPETRVKIQAHLRHVVS SLAWLDEHTLVTTSHDASVKE
16836	47204	A	16940	31	449	
16837	47205	A	16941	1	53	
16838	47206	A	16942	1	389	GMPTSTIASCSQDGRVFIWTC DASNTWSPKLLHKFNDV VWH VSWITANILAVSGGDNKVTEG QQNEQ*QDRWGLAPHPAPGL PLPGPTNQTTGKSPQLQDDYFP RRSYRCSHRLIICLNIGNAL
16839	47207	A	16943	1	438	
16840	47208	B	16944	1	1267	
16841	47209	A	16945	635	808	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *~Stop codon, /~possible nucleotide deletion, ~possible nucleotide insertion)
16842	47210	A	16946	37	1319	QGEHGHRGLHGFLGRPEQIPSWRSAPLHRLEIWGALAPSLADHSEGSPEVSVINTVDTSHHEYMIYDAQMDYYGHPGQPASSDRSVKIF*CAQWEGRSLFADLQGSWRGPVWQVVGWGTPLLRAITSWAFVASLLTGKFIYSWERGKTGTGLRRATSNAGTRLLKLNFGCCWAPHGLTVLHWSWACVWVSDRGPSLLDFTPEGQWEVKKINNAHTIGCNAVITWAPACCTWKPHRRPHRGQKPNYIKRFASGGC\NDL\IKLWKEEEDGQWKEEQLEIGHSDWVRDVAWAPSIGPAHQHHRPAAPRMGRVSIWTCDDASSNTWSP*IVDKFNDVWVHVSWSITANILAVL\CGDNK\IPLWKES*WAKWVVPSSDVKQRGFGLPYQSSDQEGPARNEQVVKDQGGALAPPPAQLPGPAPSPGP
16843	47211	A	16947	1	1021	MSGFIDHSHIARIIPGIFGTDA GSCIDQRGITGKLQPPEDRRLGEGKLTNTKDIHTKTPSVRHHRQRPKVDKTTKIGKKQSRKTGNSKNQSAPPPKCESSSPAMEQSWTENDFDELREEGFRRSNYSELKEEFRTHGKEVKNLEKRLDEWLTRITNAEKLKDLMEKLTAKARLQRVSVMEDEMNMKEEKFEREKRIKRNKQSLQEIWDYVVRPNLRLIGVPESDGENGTKLENTLQDIQESFPNLARQANIQIQIQRMQRDSLRRATPRHIVRFTKVEMKEKMLRAAREKA\HIALIPKLTT*LEVKLSSANVKEQL*QT VFQTTVQSN
16844	47212	A	16948	1	393	
16845	47213	A	16949	1	2631	
16846	47214	A	16950	1	1155	
16847	47215	A	16951	1	1185	
16848	47216	A	16952	1	942	
16849	47217	A	16953	1	615	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, * = Stop codon, / = possible nucleotide deletion, \ = possible nucleotide insertion)
16850	47218	A	16954	474	2678	IKPQRWGKKQSRKTGNSKNQS ASPPPKERSSSPAMEQSWTEND FDELREDSFRRLVITNYSSELKEE VRTNGKEVKNLEKKLDEWLTR ITNAEKSLKDLMEKMTAQELP DQCTSLSSRCDDLEERVSVMED EMNEMKCEEKFKREKRIKNEQ SLQEIWHYVVKRPNRLIGVPES DGENGTKLENTLQDIQENFPN LARQANIQIEIQRMPPQYSSR RATPRHIIVRFTKVEMKEKMRLR VAREKGQVTHKGKPIRLTADL LAETLQARREWGPIFNILKEKN FQPRISYPAKLSFIDRSTRQKVN KDTQELNSALHQADLDIYRTL HPKSTEYTFFSAPHHTYSKIDHI VGSKALLSKCKRTEITNCLSDH SAIKLELRILKILTRNHSTTWKL NNLLLLNDYVWHNEMKAEIKM FFETNENKDKTYQNLWDTFKT VCRGKFIALNAHKRKQERSKID TLTSQLKGLEKQEQTTHSKASRR QEITKJRAELKERVGRWRIGEA ADLVGVSSQAIRDAEKAGRLPH PDMEIRGRVEQRVGYTIEQINH MRDVFGRRLRAEDVFPVIGV AAHKGGVYKTSVSVHLAQDLA LKGLRVLLVEGNDPQGTASMY HGWVPLDHIHAEDTLLPFYLG KDDVTYAIKPTCWPGLDIIPSC ALHRIETELMGKDFDEGLPTDP HMLRLAIETVAHDYDVIVIDS
16851	47219	A	16955	1	675	
16852	47220	A	16956	1	1032	
16853	47221	A	16957	3	978	HEAKHQMADDAAGSGGGPKA LVGPGMG/NPVAFRRG/GIVIR GPGSRPGGRGRG/GRGARGSK AEDKDWMPVTKLG/RALVKD H*RSKFPWKEIYLFSLPH*RNQR IIDF/LGGLLSKDEGFE*LCVPQ EQDPCPASRTQASRPFAIGGL QMAHVVLGC*VLPRKVA TGHP VGAILAKLSIVPVRG/GYLGNK VLAKPIHTVP/CKVVTGRCGSVL VRLIPAR/RLGGMVSAPVA/KKL LMMAGIDDCYT/SARG/CTATL GQIWPRATL*LPFLRTYKLP*PP DLWKGRLYLPSFPIKEFTDHLV KDPHIPSSVQDSELQLVATT
16854	47222	B	16958	124	274	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=-possible nucleotide deletion, \=possible nucleotide insertion)
16855	47223	A	16959	202	2264	KWPKMNPQQQRMAAIGTDKE LSDLLDFSAMFSPVNSGKTRP TTLGSSQFSGSIDERG/GTTSW GTSQGQPSPSYDSSRGFTDSPHY SDHLNDSRLGAHEGLSPTPFMN SNLMGKTSEGSFSLYSRDITGL PGCQSSLLRQDLGLGSPAQLSS SGKPGTAYYSFSATSSRRRLPH DSAALDPLQAKKVRKVPVGLPS SVYAPSPNSDDFNRESYPSPK PPTSMFASTFFMQDGTHTSSDL WSSSNGMSQPGFGILGTSTSH MSQSSSYGNLHSHDRLSYPHPS VSPDTINTSLPMSSFHRGTSST SPYVAASHTPPINGSDSILGTRG NAAGSSQTGDALGKALASIYSP DHTSSSFSPNPSTPVGSPSLTG TSQWPRPGGQAPSSPSYENSLH SLQSRMEDRLDRLDDAIHVLRLN HAVGPTSLPAGHSDIHSLGSPS HNAPIGSLNSNYGGSSLVASSR SASVMVGTHREDSVSLNGNHVS LSSTVTTSSDNLNKHKTQENYRG GLQSQSGTVVTTEIKTENKEKD ENLHEPPSSDDMKSDDESSQKD IKVSSRGRGTSSTNEDEDLNPEQ KIEREKERRMANNARERLVR DINEAFKELGRMCQLHLKSEKP QTKLLILHQA VAVILSLEQQVR ERNLNPKAACLKRREEEKVSA VSAEPTTLPGTHPLSETTNP
16856	47224	A	16960	1190	1327	
16857	47225	A	16961	386	554	ATISFRYSQCK*AEQGCDSLEL LFTKIRKSGYWGV*ATISFRYSQ CKALEIHLTAPVVPSALRIWGF QIPGFNQLSFHPSPEKGSFLPC
16858	47226	B	16962	499	915	
16859	47227	A	16963	1	1785	
16860	47228	A	16964	1	3036	
16861	47229	A	16965	2	710	
16862	47230	A	16966	349	493	SS*VRWVSGR*HPQ*STLSAPLG ETSGCHQGGLHDLKIVVL
16863	47231	A	16967	1	1335	
16864	47232	A	16968	83	426	
16865	47233	A	16969	93	345	APALCLQILLDCXSVNRNTRSF RPREVGIQYKKGGAAGKGG TGNAPGFLLFKDS*KDPTPLPP PLLL*GQRDH*IQHLHQE
16866	47234	A	16970	1	1302	
16867	47235	A	16971	1	1174	
16868	47236	A	16972	274	1428	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
16869	47237	A	16973	411	629	HCLSHFQNTGPRGDVDFQQLA FPVLMADIRKEERSHLCRSSRR TWTLDKS*IQGSRLLSKEQGW GWGTSRK
16870	47238	A	16974	618	1552	
16871	47239	A	16975	1	558	
16872	47240	A	16976	1	765	
16873	47241	A	16977	2	418	
16874	47242	A	16978	130	1965	
16875	47243	A	16979	1	1062	
16876	47244	A	16980	1	558	
16877	47245	A	16981	37	676	
16878	47246	A	16982	1	1014	
16879	47247	A	16983	1	2964	
16880	47248	B	16984	259	1751	
16881	47249	A	16985	1	987	
16882	47250	A	16986	1	1047	
16883	47251	A	16987	3	1413	GLHAARGPWVYQAWISITM ^{ER} KEVCYQQLGCFSDKWPAGTL QRPVKLLPWSPEIDITRFLLYT NENPNNFQLITGTEPDITIASNF QLDRKTRFIHGFLLDKAEDSWP SDMCKKMFEVEKVNICVDWR HGSRAMYTQAVQNI ^{RV} VGAET AFLIQA ^{LS} SVKPC ^L GPVLVWGV ^R EGQGDAARGTALEDVHVIAHS LGAHTAAEA ^{GRS} WGPRGRITD DLGTA*YKVDGMG*ERRGV ^{RF} SI*P*GGGV*AGFGGERFR* ^{RKN} VGKSTAGWRMGLDPAGPCFQ DEPEEVRLDPSDAVFDV ^{IH} TD SSPIVPSLGFMSQKV ^{GH} LDFFP NGGKEMP ^{GC} KKNV ^L STITDIDG IWEIGIGFVSCNHL ^{RS} FEY ^{YSSS} VLNPDGFLGYP ^{CAS} YDEFQ ^{ESK} CFPCPAEGC ^{PKM} GHYADQ ^{FKG} KTSAVEQTFFLNTGESGN ^{FTSW} RYKVS ^{VT} LSGKEKVNGY ^{IRIAL} YGSNENSKQYE ^{IFK}
16884	47252	B	16988	95	315	
16885	47253	C	16989	1	780	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \=possible nucleotide insertion)
16886	47254	A	16990	2	1426	SGTLDRMLIFWTTITLFLGAAK GKEVCYEDLGCFSDTEPWGGT AIRPLKILPWSPEKIGTRFLLYT NENPNNFQILLSDSTIEASNF QMDRKRTRFIHGFIDKGDSEWV TDMCKKLFEEVEVNCIFVDWK KGSQATYTAQANNVRVVGQAQ VAQMLDILLTEYSYPPSKVHLI GHSIGAHVAGEAGSKTPGLSK/ RLQGLDPVEASFESTPEEVR/LAD PSDADFVDVIHTDAAPLIPFLGF GTNQMGHLDFFPNGGESMPG CKKNALSQIVDLDDGIWAGTRDF VACNHLRSYKYYLESLNPDGF AAYPCTSYKSFESDKCFPCPDQ GCPQMGHYADKFAGRTSEEQ KFFLNTGEASNFARWRYGVST LSGRATGQIKVALFGNKGNTN QYSIFRGILKPGSTHSYEFDAKL DVGTEIKVKFLWNNNVINPTLP KVGATKITVQKGEKTVYNFCS EDTVREDTLLTLTPC
16887	47255	A	16991	1	1407	
16888	47256	A	16992	954	1663	EPSDPAHAPSVALLHTGNQSK VLPWPNRNPMCKRW*K*KMLKI SWVHEWVTSNWISTAVRSLRV FAPKNVFQ**ALGPSGLWLYC
16889	47257	A	16993	3	242	
16890	47258	A	16994	1	1815	
16891	47259	A	16995	1	375	
16892	47260	A	16996	3	2005	
16893	47261	A	16997	1	651	
16894	47262	A	16998	114	275	
16895	47263	A	16999	1	270	
16896	47264	A	17000	140	876	PPALVVGRRQKSWRMFEQMR NVGKLLKGIDR\YNPENLATLE R\YVETQAKENAYDLEPNLAVP ESCTKFNPAAFQTINGSTAQDSC *KALTNLPHITDFTL\CKC\MIRP GHIQE\ERPITDFCYLGGPGWE TWPFSAFWESPGMKTVDLLW KV*LG\FEDSV\RKFI\CHVVGIT YQHIDR\WLLAEMLGDLFGQAS *RCWMSKYGWSADESCGQIFC SPRREHLTPRNIVEKIDFDSVSSI MASSQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, /-possible nucleotide insertion)
16897	47265	A	17001	1	777	MSGENVTKVSTFILVGLPTAPG LQYLLFLLTYLFVLVENLAI ILIVWSSTSLHRPMYYFLSSMSF LEIWVYSDITPKMLEGFLQKQ RISFVGCMTQLYFFSSLVCTEC VLLASMGYDRYVAICHPLRYN LACTDFSTAELV/SFILAFILVFP LLATILSYWHITLAVLRIPSATG CWRAFSTCASHLTVVTVFYTA LLFMYVRPQAIDSQSSNKLISA VYTVVTPINPLIYCLRNKEFKD ALKKALGLGQTS
16898	47266	A	17002	2	876	
16899	47267	A	17003	1	894	
16900	47268	A	17004	377	501	
16901	47269	A	17005	3	823	
16902	47270	A	17006	1	874	
16903	47271	C	17007	156	287	
16904	47272	A	17008	1	1140	
16905	47273	A	17009	1299	3135	ISGSVCILLWLQLLPAYNLIHT WEHRHSPPGT/RMSRLAKRNA WEADR/YAEA/LAASRRGQPS LMSSREGGWGEGSQSRNSSHG ALKEAQFIITNAEKS/LKDL KTM/AQELRDECTSLSSRFQLE EKVSVMEDEINEMKQEEKVRE KRIKRNEQSLQEIWDYVKRPNL HLIGVPESDRENGTKLENTLQDI IQENFPNLA/QANI/QEIQRMP QRYSSRRATPRHIIVRFTKVE KEKMLRAAREKEIQTITREYYK HLYTNKLENLEEMDKFLDTYS LPRLNQEEVESLKRPIGTSEIGAI INSLPTKKSPGPDGFTAIFYQRY KKELVPFLKL/FQSTEKERILPN SFYEASIIILPKPGRDTTKENFR PISLMNINAKILNKILANQIQHI EKLIHHDQVGFIPGMQGWFNIR KSINVIQHINR/NEKNHMIISIDA EKAFDKIQPFMLKTLNKL GID GTYLKIVRAIYDKLTANIILNGQ KLEAFPLKTGTRQGCP/LSP/LF NIVLEV/LARAI/REKEIKGIQLG KEQVKLSL/FADDMIVYLENPIV SAQNLLKLISNFSKVS/GYKINV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIK
16906	47274	C	17010	189	457	
16907	47275	A	17011	2	2600	
16908	47276	A	17012	107	1493	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
16909	47277	A	17013	3	2209	IHTKTPSVCHHHQRPKVDKTTK MGKKQSRNTGNSKNQSTSPPP KECSPAAMEQSWMENDFDEL REEGFRRSNFSELTEVRTHRK EAKNLEKKIRQMVTITNVEK SLNDLMELKNMARELRDKCTS FSSRFQLEERSVIEDQMNE KQEEKFREKRVKRNESLQEI DYVKRPNLRLIGIPESDENGT KLENTLQDIHQENFPNLARQAN IQIKEIQRMPQRYSSRRATPRQI IVRFTEVEMREKMLRAAREKG RVTHKGKTIRLTVDLSAETIQ RRESTRQKVNKDQELNSAQHQ ADLTDNYRTLHPKSTEYTLFSA PHIITYSKIDHIVGSKALLSKCK RTEITNCLSDHSAIKLELRKIKL TQNLSTTWKLNLLNDYVWH NEMKAEIKMLFETNENKDTTY QNLWDTFKAVCRGKYIALNAH KRKQERSKIDTLTSQLEKEKQ EQSHSKASRRQETIKIRAEKKEI ETQKTLQKINESRDWFEKINKI DRQLARLIKKKREKNQIDTIKN VLEFLAKAIRQDKKIGIQLGKE EVKLLFLAEDMIVYLENPIVSA QNLLKLISNFSKVSQYKINVQK SQAFLYTNNRQTESQIMSELPFT IASKRKIKYLGQLTRDMKDLFK ENYKPLLNKIKEDTKKWKNPC SWVGRINIMKMAILPKVIYRFN AIPKLPMTFFTELEKTTLKFTW
16910	47278	A	17014	292	699	
16911	47279	A	17015	269	803	ALGPCSEALPTWVNGEEMA QEIDLSALKELEREAILQVLYRD QAVQNTTEERTRAAGN*KHTC SISGGKGPKNTDWEHKEKCA RCQQVLGFLLRGA VCRGCSH RVCAQCRVFLRGTHAWKCTVC FEDRNVIKGTGEWFYEERAKKF PTGDNSVRTSCTGKHETVGGQ LLQSYQK
16912	47280	A	17016	1	1173	
16913	47281	A	17017	349	718	AGPEGTTTAECP/ICQQQRPI LRYGTISWG/DQSATWWQVDY IRTLTLLSWKWSASAKTTIHGLT KCLIHHDIPHSIASD*GTGCFMAK EVWQWYCFSHSQDSRVQESRG GIGSCTTHHPCSFN

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v-possible nucleotide insertion)
16914	47282	A	17018	196	577	GSSGQSESAQPQGLWVLPSTRS LAILSTDVNV*QPCFPAGAHQG QPLAWPVFLAWLSWQKRCR* KQQRSSRNLDHRNPGWLHEE GDKTPFFHHFPQLGQSLSQQS LLPAGRR*ARGPQQLPSP
16915	47283	A	17019	1	2523	
16916	47284	A	17020	236	558	
16917	47285	A	17021	1610	2004	VTWSAQMPWAIKNCPTHSPL GGGCLPQPKM*VVQNDPQ*G* WTHCRKGKGGQGVGVWPWQ TQNRGKGTFLTPLHSVADAM LYAL*RGSDLDAAQTLPTAAQ DALYAVVPGGEPTGQLQVRHN EFALGQ
16918	47286	A	17022	1	735	
16919	47287	A	17023	88	1871	
16920	47288	A	17024	1	1299	
16921	47289	A	17025	2	260	
16922	47290	A	17026	144	1737	
16923	47291	A	17027	1	1182	
16924	47292	A	17028	262	1132	
16925	47293	A	17029	1	484	
16926	47294	A	17030	3	382	LKGAPELDELDESRRTWREK GRKRKRALGRVQV*RSRCA* P/STPAALNAPLQGGASHSPFLR NCWKGRSVRASSLLRQLAKGG CAARLRSWNLQIVQMYEGHS QQPGLQRLQRWSSQTLRTA
16927	47295	A	17031	1	2022	
16928	47296	A	17032	209	403	
16929	47297	A	17033	213	1993	
16930	47298	A	17034	1	378	
16931	47299	A	17035	64	1180	SASHSGAPATSLYERGVCPAL RRPPAVLVCRAAASCTLLAMS DLQEEGKNAINSPMSPALVDVH PEDTQLEENEERTMIDPTSKEDP KFKELGKVLDDWINDVLAERI IVKQLEEDLYDQVQLKLF/EK NLAGLQSLNVAEVTQSEIGQKQ KLQKVLQLHDLRPRSWALR IWLGNISHGKNLVGNPQLLVSL AMHFRAPIRLPEHVTQVVVV RKREGLLHSSHISEELTTITEM MMGRFERDAFDTLFDHAPDKL SVVKKSLITFVNKHLNKLNLV TELETQFADGVYVLLMGLLE DYFVPLHHFYLTPEFDDQKVHN VSFAFELMLGRRPSRNPRVLK TWLTWDLKSPLRVLYNLFTKY
16932	47300	A	17036	3	764	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
16933	47301	A	17037	1	1230	
16934	47302	A	17038	1	313	
16935	47303	A	17039	145	263	IFLLYLKKNKVQNK*EIKQHFLG KIMSRDNNNTYLTWGTEN
16936	47304	A	17040	5	982	PTFSRAVATMFSRAGVAGLSA WTLQPQWQVRNMATLKDITR RLKSIKNIQKITKSMKMVA AAK YARAERELKPARIYGLGSLALY EKADIKGPEDKKHLLIGVSSD RGLCGAIHSSIAKQMKSEVATL TAAGKEVMLVGIGDKIRGILYR THSDQFLVAFKEVGRKPTTFGD ASVIALELLNSGYEFDEGSIIFN KFRSISYRTEEKPIFSLNTVAS ADQHGVSMTDIDADVAAKITQ EY/NIWANIILLTLWKESTTSGG RSARG*QPWDNGQARIAFWRM DLNLDIWTFR/TRQAVITKE LIEIISGAASSVKKENSAS
16937	47305	A	17041	1334	1790	
16938	47306	A	17042	1	930	
16939	47307	A	17043	2	477	SGLGRLPGPWQEAGSSRGPSSG DMAGVKALVALSFSGAIGLTF/ LHMLGCALEDYGVYWPFLVLI FHAISSIPHFIAKRVTYDSDATS SACRELAYFFTTGIVVSCI.WISP VILARVALIKWGACGLVLA/G NAVIFPYNSRGFSYLG RGDDF SWEQW
16940	47308	A	17044	130	434	
16941	47309	A	17045	1	1365	
16942	47310	A	17046	656	839	
16943	47311	B	17047	16	149	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
16944	47312	A	17048	1	1317	MTLNEHAAFKHLFNKAHLAPP LIHLTLSGHSTCFREHRRVGVCIS HFAQDLWPEQGREDSFQKVLIR RYEKGCGHENLQLKIGCTNVDES LTYKRIHTGEKPKCKCEECDKAF SKFSILTKHKVIHTGEKHYKCE ECGKAFTRSSSLIEHKRSHAGE KPYKCEECGKAFSKASTLTAHK TIHAGEKPYKCEECGKAFNRSS NLMEHKRIHTGEKPKCKCEECG KAFGNFSTLTKHKVIHTGEKPY KCEECGKAFSWPSSLTEHKRIH AGDKPYKCEECGKTFKWSSTL TKHKIIHTGEKPYKCEECGKAF TTFSSLTKHKVIHTGEKHYKCE ECGKVFSWSSSLTTHKAIHAGE KLYKCEECGKAFAKWSSSLSEH KRIHTGEKPYKCEECGKAFSW VSVLKNKKKIHAGKKFYKCEE CGKDFNQSSSLTTHKRIHTGVE KPYKCEECGKAFSKASTLTAHK TIHAGEKPYKCEECGKAFNRSS NLMEHKRIHTGEKPKCKCEECG KAFGNFSTLTKHKVIHTGEKPY KCEECGKAFSWPSSLTEHKRIH AGDKPYKCEECGKTFKWSSTL TKHKIIHTGEKPYKCEECGKAF TTFSSLTKHKVIHTGEKHYKCE ECGKVFSWSSSLTTHKAIHAGE KLYKCEECGKAFAKWSSSLSEH KRIHTGEKPYKCEECGKAFSW VSVLKNKKKIHAGKKFYKCEE
16945	47313	A	17049	2	2183	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /possible nucleotide deletion, √possible nucleotide insertion)
16946	47314	A	17050	3	1440	IKVLLGENRVNPTMAVWLAQ WLGKGASLTSFPPTASLLRR LGEHIQQFQESSAQGLGLSLGP GAAALPKVGWLEQLDPFNVS DRRSHLQRYWVNDQHWVGQ DGPFLHLHLTSPPTHTLFTGH PAALAPAWGALVISLEHRFYGL SIPAGGRLALSRLEFNISSSPWIC FGGSYAGSLPSHHAPTFPRAQR IS*HFRIPSSAVRPQVVSRLMS TAIGGSLE/CRRWGLVRGLGG KRGLGCQGRGGPA*VLADIASC FPQCRAAVSVAFAEVERRLRSG GAAQAALRTLSACPLGRAE NQAELLGALQALVGGVVQYD GQTGAPLSVRQLCGLLGGGG NRRGGIYVLCMYIVP*IVLHSLG QKCLSFSAETVAQLRSTEPQL SGVGEAPIYLA PSYPFFPGDTP WHVLSVTQALGSSESTLLIRTG SHCLDMAPERPSDSPSLRLGRQ NIFQQLQTWLKLAKESQIKGEV
16947	47315	B	17051	41	2709	
16948	47316	A	17052	874	1024	
16949	47317	A	17053	1	1602	MDSLWGPAGSHPFVHNSRL SPDLCPGKIVLRALKESGAGMP EQDKDPRVQENPGDQRRVPEV TGDAPSAFRLRDNGGLSPFVP GPGPLQTDLHAQRSEIRYDQSS QTSWTSSCTNRNAISSSYSTGG LPLGKRRRGPASSHCQLTLSSS KTVSEDRPQAVSSGHTQCEKV AEKAPGQTLALRNDSSRSEASR PSTRKFLLPHRRGEPLMLPPPV ELGYRVTAEDLDWEKEAAFQC IKSALQVEDKAISDCRPSRPSHT LSLATGAS/DSAQVTSIPAPFP AASMDAGMRRTRPGTSAPAAA AAAPPSTLNRTLGSLLEWMEA LHISGPQPLQQVPRGQNQRSQ TSRTSSCPK/LKCHLELLQLYGR PPGTKAEEAPASSHCQLTLSSSN TVSEDPQAVSSGHTQCEKTAD TAPGQTLGPRGGSRSQSSRPR RHKFPLPRRRGEPLMLPPLEL GYWVTAEDLDREKEAAFQRIN SALQVEDKAISDCRPSRPSHTLS SLATGASGLPAISKAPMDAQQ ERHKS
16950	47318	A	17054	1	1155	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, =possible nucleotide insertion)
16951	47319	A	17055	1	1237	MDSLWGPAGSHPFVGHINTRL SPDLCPGKIVLRALKESGAGMP EQDKDPRVQENPGDQRRVPEV TGDAPSAFRPLRDNRLSPFVP GPGPLQTDLHAQRSEIRYNQTS QISWTSCTNRNAISSYSSMGG LPGLKRRRGPASSHCQLTLSS KTVSEDRPQAVSSGHTQCEKA ADIAPGQTLALRNDSTSEASRP STHKFPLLRRRGEPLMLPPSL EVGVGSLVKELDREKEAAFQ RINSALQVEDKAISDCRPSWPS HTLSSLATGTSLGPAISKAPSM AQQETHKSQDCLGLLAPLASA AGVPSTAPMSGKKHRPPGPLFS SSDPLPATSSHSQDSAQVTSILP APPPAASMDVGMRRTRRGEPL MLPPLELGYRVTAEDLDQEKE AAFRQIKSALQVEDKAI
16952	47320	A	17056	132	835	
16953	47321	A	17057	1	2947	MPEQDKDPRVQENPDQRRVP KVTGDARSAFRPLRDNGVLSF VPRPGPLQTYLHAQRSEIRYNQ TSQNTWTSSCTNQNAISSYSS VGGLGLKWRRGPAQGESGAG MPEQDKDPRVQQNPDDHRTV PEVTGDARSAFWPLRDNGGLSP FVPRPGPLQTDLHAQSSSEIRYN QTSQTSWTSSSTKRNAISSYSS TGGLPGLKQRRGPASSRCQLTL SYSKTVSEDRPQAVSSGHTRCE KAADTAPGQTLAPR
16954	47322	C	17058	229	624	
16955	47323	A	17059	1	1011	MVSTPATLPSLPKALMASWG VPYDQLTKEEKTRVWFTDGSA RYAGTTQKWTAVLQPLSRTS LKDSSEKSSQWAEQLQAVYL VHFAWKEKWPVGLYTDWSA VANGLAGWSETWEKQDWKIG DKEIWGRGMWMDLSEWSKAV KIFVSHVSAHQRVTSAEFEFNN QVDRPL/PVFTQWAHEQSGHSG RDGGYSWAQQTGLPFTKADL AMATAECPCQQRPTLSPLYS TIPQGDQPATWWQIDYIGPLPS WKGQKFLTVIDTYSRYRFAY PAHNASAKTTIHGLIECLHICYG IPHSIASDQSIH/TTKEVQ*WAH AHGHIHWSYHVSHHPEAAGL
16956	47324	B	17060	10	597	
16957	47325	B	17061	6	297	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, * = Stop codon, / = possible nucleotide deletion, \ = possible nucleotide insertion)
16958	47326	B	17062	1	474	
16959	47327	A	17063	1	2712	
16960	47328	B	17064	1	738	
16961	47329	A	17065	3	772	DPADPMVLEVSEADRDAIVPIS ESQQRPLGFWSKALPSSANNYS FFKRQLLACYWVLEIEHLTM GHQVTMRPELPINCVLSDPCSH KVGHAQHSIIKWRWYIHYQA QAGPEGTSNLHEEVAQMPTVS TSATLPSLPEPTQMALWEVVPY DQFTEEEKTGAWFTDGSAYHT GTT*KWTVAAALQPLSRTTLKDS CEGKSPHPVIAQWAHEQSGH GGRDGGYLWAQQHGFPLTKA DLAMATAECPICQQKRTLNP
16962	47330	A	17067	1667	2012	LSPHWPPGLPFSALIYAFGLRSS RNKRRLMKTMKVEACEDLSAP KYLRIQLPTGSPRRRSEAEVCI FQGSFSLVHPPPLSYPSARR* PQTTPRPPRHPSLHPLHPSAQ
16963	47331	A	17068	5	1074	RHSALGTGGSSCRQQRPRDT WVPETILTAWSS/RLQQLGPW LQVTVAGQVNTLAGIQKTIHAE HCNVTERPPTGHEALAPPCEQ GPPQVLDSNAVAPTADCGYQL STAINRNQELCGRKPAVSPSR/G JSPGSPILRPVHGHGYCLQRL SGQKSNRRRTTQKSFQKLHVDK RKPENFSKESDHLIYSREGNPD VASLATPPGIWMMSATDLFYG DPFAFPGGGPFTLSLERGPSVIL GTDASEELLFTKASLAVTSVF QFSTGKIYTEWVWQKNKSFLSP HFPTKPMASPVKGKHSTSLQR LNYRDRWQCLQEGAGLALLSA HMKVPTGSKEPQAGKLPSPK RKQTPTTFKD
16964	47332	A	17069	2	699	CSACPVSHPWLLPWQSGSAFSL P*RALQRPPQHGHRLSKPMQSP RLSVLLRPWPRRLPTDLLY*PS TRGHIHLHDRHHGAPSVSRRW GDKASPPQFPYRSRDSK/RRPPQ HGEVGTVFTNNKGGQS/PATST WEVQSAECQKAPEAGPTTPSTA GDAEGANALRQESEGNWGSEA KSPHVAEAGSWRPQQGSCCHL HPPDKTKDAARKTHSPGDNGC QPRPPRCKTLWSLSRI
16965	47333	A	17070	223	1611	
16966	47334	A	17071	12	310	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, √=possible nucleotide insertion)
16967	47335	A	17072	31	430	LQAVRLFTLPTSSGL*KLRTVP TWSPSPSCFPHFQSGPRTRTAPT PSTINPGYSGSYSSGPPSLCPRTS RRAPPRHRVPAGRERLHIVVPP YPRPERHLLRVSRRLGILGNRV GRLPESRAIAGRKEEKTDTK
16968	47336	A	17073	1	474	
16969	47337	A	17074	153	1224	RVFSEVSCSPVRNLEFLWRFAP PLAPAGRCPPGVPLQTSRDT AHRSSPLPARASPGQVAAAYR WARCPGCGGRKPRSSGSWQLC RCPTLPPPPRGRSSGRC/RTWP SPSPSCFPHFQSGPRITRAPTPSTIN PGYSGSYSSGPGR*GLSPLHAA/ VSPPLPPGP*GSWARAGLSI ASAHSPCLCRSLIRSRS*QTCT RSPT*NCEVPPAS*AA SPLRTM FALVRTAGLKVHLLPLGYCTT MS*SSSMPTVPVVVKVSNIPS VHPP*PCKDCTISRSRISFTRSPI CNPPGFLLPFCSPSTIGQ*SL*KEP PLASWTHFRSDVLLLFVSVMNG STLSLGCPSQKAVIALVQVT
16970	47338	A	17075	215	1246	
16971	47339	A	17076	566	675	QPCRQ/CLQPGSPRFHARTLT VTLVHTRTHTAHAH
16972	47340	A	17077	184	584	
16973	47341	A	17078	1	1167	
16974	47342	A	17079	849	2266	
16975	47343	A	17080	1505	1891	DAEKAFDEIQ/PFMIKILRSI QGTLYLNVIKTIYDKPTANTILN VEKLKTFPLRTGTQGCPLSAL LFNMVLEVIARIAEQEKGIKGIQ ISKKEVKLSLFADDMIVHIENPK DSSRKLLELKEFSKV
16976	47344	A	17081	1	842	
16977	47345	A	17082	155	531	GNLWSVDLRPGTPLRQNFRTI RQQHSRFTKNHCSQTPLLIPRQ TGSVDVLSKLQQTCS*GSCLV TIDLANAFSIPVHKA/HQKQFA FSWQ/YTFTVLPRLTWLQPC*V PNLPAEATNTEPSNGT
16978	47346	A	17083	1	1773	
16979	47347	B	17084	598	1428	
16980	47348	A	17085	3	227	
16981	47349	A	17086	1	207	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
16982	47350	A	17087	1	789	RDLQPFTSVTVHCRKNGNDQTF GGPLDAGSELTIPGDPKHHC PPVKVGAYGGQVINGVLA/HPL IWL VQKTDGS/WRMTVDYCKL NQVVIPIAAAVSDVVSLLEQINT SPGTWYAAIDLANAFFSIPVHK AQQKQFAFSWQGGQYTFVLP QWYINSPALCHNLIRRDLD CFS LPLDITLVHYIDDIMLIGSSEQ VANTLDL FVRHLRARGWEINPT KIQGPSTSVKFLGFQWCGACQA IPSKMRDKLLHLVPPTTKKEAQ
16983	47351	A	17088	1	435	
16984	47352	A	17089	2	808	PLIWL VQKTDGS/WRMTVDY CLNQVVIPIAAAVSDVVSLLEQ NTSPGTWYAAIDLANAFFSIPV HKAQQKQFAFSWQGGQYTFV LPQWYINSPALCHNLIRRDLD C FSLPLDITLVHYIDDIMLIGSSEQ EVANTLDL FVRHLRARGWEINPT KIQGPSTSVKFLGFQWCGACQ AIPSKMRDKLLHLVPPTTKKEA QCLQLLACY/WALVETEHLTIS HQVTMRPELPMINWVLPDSSH KVGCAQQHSIIKWKVYVHDW ARAGPEGT
16985	47353	A	17090	2	544	
16986	47354	A	17091	1	633	MTVDYRKFNQVVPMAA/AVP DAVSLLEQINTFPGTWYAAIDL ANAFFSIPVHEAHQKQFALPQ GYINFPALCHNLIRREDFLL QDITLVHYIDDILLIGSSEQEV NTLDL LHKRSKEAEHTAASRIR VSCLPEQKSEHTLPWEQVPSS GDIKEYFPNAFVLLTTASLQGG DNTSQLQLTWKAPEDIKMSKT DADAEEIEALRG
16987	47355	A	17092	1	3228	MVTSSLTVAITSLVVVITSLV TSFVVVITSLVVVITSLVVVIT SIAIAITLVVVLTFVTVVLTSLV VVITSLVMVITPPFAVITSLGV VITSLVVIITCLVLVITLGVVIT LGVVITSLVMVITPLVAVITPL GVVITSLVVVITSLVMVITSLTV VITSSIVVITPLVMVITSLTVIT L FVVITPLVMVITPLVIVNTSLV VVLITLIVSPPSLCSL VVVITFL VVAITSLVVVITSLVVVITSL
16988	47356	A	17093	1	471	
16989	47357	A	17094	1	1590	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
16990	47358	A	17095	332	1704	RGYVFCSWKKT DGS/WRMTVD YCKLNQVVIPIAAVSDVVSLL EQINTSPGTWYAAIDLANAFFSI PVHKAQQKQFAFSWQQQYTF TVLPQWYINSPALCHNLIRDL DCFSLPLDITLVHYIDDIMLIGP RQLLACY/WALVETEHLTISHQ VTMRPELPIMNWVLFDPSSHKV GCAQQHSIIKWKWYVHDWAR AGPEGTTTPVISQWPHEQCCHG GRDGGYAWAQCRI.PLTKAD LNTATAKRPIQQQRPTLSPQY GTIPQGDQPATWWVVDYMG LPSWKQGRFVLGTGIDTYSYGF AYPACNASAKTAICGLTECLIH HHIDIPHSIASDQGTFFMAKEVR QWAHDHGHWSYHVSHPHEA AGLIEWWNGLLKSQLCQLGD NTWQGWGKVLQKVYVALNQH PIYGTVSPIAKIHRRVADSLKGG SGSWVWGFSTLAALDNDLGT RKVRAPSTN
16991	47359	B	17096	1	2061	
16992	47360	A	17097	1	1623	
16993	47361	A	17098	1	741	
16994	47362	A	17099	213	679	
16995	47363	A	17100	33	853	
16996	47364	A	17101	3	1249	
16997	47365	A	17102	17	770	
16998	47366	A	17103	130	469	
16999	47367	A	17104	1	1425	
17000	47368	A	17105	1	882	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, V=possible nucleotide insertion)
17001	47369	A	17106	227	1519	VTLLIKMNAMLETPLFLSAVSDG VKLSAVAALVYVIVRCMNLKS ATAAPDLYLQDSGLSRFLKSC PLLTKYEIPPLIWGKSGHIQTAL YGKMGVRVSRPHYGHKRFITM SDGATSTFDLFEPLAEHCVGDD ITMVICPGIANHSEKQYIRTFVD YAQKNGYRCAVLNHLGALPNI ELTSPRMFTYGTWEFGAMVN YIKKTYPLTLQVVVGFSLGGNI VCKYLGGETQANQEKVLCVSV CQGYALSRAQETFMQWDQCR FYNFLMADNMKKIILSHRQALF GDHVKKQPSLEDTLDSRLYTAT SLMQIDDNVMRKFHGYNLSKE YEEESCMMRYLHRIYVPLMLV NAADDPVHESLLTIPKSLSEKR ENVMFVLP.LHGGHLGFFEGSVL FPEPLTWMMDKLVVEYANAICQ WERNKLQCSDETEQVEADLE
17002	47370	A	17107	21	385	SRSSSVVRQEPGRADGQRRRR GGPGLRSPGERQQPRPARPCR AHPGDPAGA/QPPPKTGKTCG APKATTRSTRCSISR*PPFPRSSC PTSPRAPSSSASTAAMRRWL VTCRMPNWA
17003	47371	A	17108	158	423	
17004	47372	A	17109	1	1851	
17005	47373	A	17110	1	1104	
17006	47374	A	17111	66	432	
17007	47375	A	17112	103	3531	
17008	47376	A	17113	1	1311	
17009	47377	A	17114	1	750	
17010	47378	A	17115	183	373	QPQATTLVHPVHVA*LF*VHW QNRYPADNQGYRHWRCLLPA LPDAGR/VRLSASC*KPPNSRG
17011	47379	A	17116	344	480	SPKDQEPSISKV***TSLPTSSR SLCLPPARMHFVWLAALLSFA
17012	47380	A	17117	3	3565	HEARRGLKMAACGRVRRMFRL SAAHLHLLLFAGA/RNSPARA SHSQGGQPGANFVSFVGQAGG GGPAGGQLPQLQSSQLQQQQ QQQQQQQQPQPQPPFAGGPP ARRGGAGAGGGWKLAEESCR EDVTRVCPKHTWSNNLAVLEC LQDVREPENEISSDCNHLWNY KLNLTTDPKFESVAREVCKSTIT EIKECADEPVGKGYMVSCLVD HRGNITEYQCHQYITKMTAIF DYRLICGFMDDCKNDIN

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, /-possible nucleotide insertion)
17013	47381	A	17118	1	495	PDRRRGCPALSGS*SGPAPRL/C LCNPTLTTFHPSGVIGVCL*RHWC LCRANTRHPSYRGRLSSR
17014	47382	A	17119	1	1479	
17015	47383	B	17120	67	8652	
17016	47384	B	17121	67	9183	
17017	47385	A	17122	1	1440	
17018	47386	A	17123	1	422	FRWKELDRPLEPSPETAQPPPP WLQK/NPTAVERANLLNMAKL SIKGLIESALSFGRTLDSYPPPL QQFFVVMHECLKHGLKVRKSF LSYNKTIWGPLELVEKLYPEAE EIGASVRDLPLGNEFYEHALM MEEEGAVIVG
17019	47387	A	17124	2	587	WMGSCGLHRAWLQMRWWPE SAWKELDRPREPPETAQPPPP WLQK/NPTAVERANLLNMAKL SIKGLIESALSFGRTLDSYPPPL QQFFVVMHECLKHGLKVRKSF LSYNKTIWGPLELVEKLYPEAE EIGASVRDLPLGLKTPGRARAW LRLALMQKKMADYLRCLIIQR DLLSEFYEHALMMEEEGAVI
17020	47388	A	17125	312	493	
17021	47389	C	17126	102	278	
17022	47390	A	17127	2	140	KAHNCSGLRPPDLNPSVSNRL FASFLSPRDLKGR/ICSD*SQVL
17023	47391	A	17128	1	2051	
17024	47392	A	17129	1	498	
17025	47393	A	17130	2	340	
17026	47394	A	17131	140	396	
17027	47395	A	17132	703	912	
17028	47396	B	17133	201	912	
17029	47397	A	17134	1	1382	
17030	47398	A	17135	2	431	
17031	47399	B	17136	99	1151	
17032	47400	A	17137	1	891	
17033	47401	A	17138	15	2722	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
17034	47402	A	17139	476	2934	TEPKTKTT*LSQ*MQKKPLTKF NNPSC*KLSIN/IVLEVLAIRQ EKEIKGQLGKEEVKLSLFADD MIVYLENPVSAQNLLKLSNFS KVSQGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASRIKYLGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNNIPCSWVGRIIVK MAILPKVIYRFNAIPIKLPMTFF TELEKTTLRFIWNQKRARIAKAI LSQKNKAVGITLPDFKLYKAT VTKTAWYWYQNRDIDQWNRT EPSEITPLIYNYQIFDKPEKNKQ WGKDSL FNKWCWDNWLAIKR KLKLDPLTPYTKINSRWIKAL NLRPKTIKLEENLGITQDIGTG KDFMTKTPKAMATKDKIDKW DLIKLSFCTAKETTIRVNRPT KWEKIFATYSSDKGLISRIYNEL KQIYKKKTNNPIKKWEKDMNR HFSKDDILAAKKHKCCSSAI REMQIKTTMRHYLTPVRMAIHK KPGNNSQKDIPDWRNGPKRKD RQITTFRGPTKLQVVVPTLGAA PGRGCPWPRRPRCPGREGELH PALGGERGQRQAAGSGGARRL APSAGDGLCVGPVEDTGETQT WKTGQPGLEPWWGWRPTEPP PAPSSHSEEWPRRPPVRRAPRP AGEHAGEGGAADVADTTAFSPW LPRVGGWHLQVHRGGRSCAGA RRFGGSRGWDLDLSSAPVASL
17035	47403	A	17140	1	2298	
17036	47404	A	17141	3	482	
17037	47405	A	17142	1	1026	
17038	47406	A	17143	1	623	
17039	47407	A	17144	25	392	ESLKGADPKFLRNMRFANKHN KKGLKKMQANSARATTSARAD AIKALVKPKEGKPDIPKGVSRK LDPLAYIAHPRLGKCAHSCIAK GLKLCRLQAKDKDQTKAQAA APA*APKGARTPTKASE
17040	47408	A	17145	1	507	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17041	47409	A	17146	2	811	YRFSGPTIRSIQNHTHTNQGRK WHKKGIKKPRAQRYESLKGPE V*PSGQGVTCLLRADWLSPLL SGTYVGPFLRNTRFKKHKNK KGLKKMQANNAKAMSAIAE AVKALVKPEVKPKIPKGG/SR KLRLTLPDIVHP/KLGSARAPY LPRGFRLCLPNANAKSISSQGO GQGGQGSNQGGPFKPLQVP ASGVNVPRLTKGFQSRYSLA QHEGQERTWVRPPTPRPWGYH FAWGWGSPVAICTNKPEAGKR RNEKEKLCQGDGY
17042	47410	A	17147	1	636	
17043	47411	A	17148	169	410	
17044	47412	A	17149	385	1359	QTNSPNCVRGRVSPVLPGSSS MDVLASYSIQELQLVHDGTGYF SALPSLEETWQTCLELERYLQ TEPRRISETFGEDLD/CFL/HAFP SPCIEESFRRLDPLLPVEAAICE KSSAVDILLSRDKLLSETCLSLQ PASSSLDSYTAVNQAQLNAVTS LTPPSPFELSRHLVKTSTQLSAV DGTVTLLKLVAKKAALSSVKVG GVATAAAAVTAAGAVKSGQS DSDQGGGLGAEACPENKKRVHR CQFNGCRKVYTKSSHKAHQQR THTGEPKYKCSWEGCEWRFRAR SDELTRHYRKHTGAKPFKCNH CDRCFSRSDHLALHMKRHI
17045	47413	A	17150	1	948	
17046	47414	A	17151	400	446	PSFLR*PSFWSREFH
17047	47415	A	17152	7212	10914	ADSGCKL/PSSC*HVLCA/WVTY MVMAAILHKLQDLASRGRAI PFCGQGRGFKYEILVKTGWGR GSGTTAHVGIMLYGVDSRSGH RHLGDGDRAFHRNSLDFRIATP HSLGSVWKIRVWHDNKGLSPA WFLQHVIVRDLQTARSFFLVN DWLSVETEANGGLVEKEVLAA SDAALLRFRLLVAELQGFDD KHIWLSIWDPRPFRSRTFRIQAT CCVLLICFLGANAVWYGAVG DSAYSTGHVSRSLPLSV
17048	47416	B	17153	1	14934	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, * = Stop codon, / = possible nucleotide deletion, \ = possible nucleotide insertion)
17049	47417	A	17154	999	3009	ADSGCKL/PSSC*HVLCA/WVTY MVMAAILHKLDQLDASRGRAI PFCGQGRFKYIELVKTGWGR GSGTTAHVGIMLYGVDSRSGH RHLGDGDRAFHRNSLDIFRIATP HSLGSVWKIRVWHDNKLSPA WFLQHVIVRDLQTARSAFFLVN DWLSVETEANGGLVEKEVLAA SDAALLRFRRLLVAELQRGFFD KHIWLSIWDRPPRSRFTRIQRAT CCVLLICLFLGANAVWYGAVG DSAYSTGHVSRLSPLSVDTVAV GLVSSVVVYPVYLAILFLFRMS RSKVAGSPSPTPAGQQVLDDSD CLDSSVLDSSTLFTSGLHAEVRT LLGVLGWAGGPAALAQGLKT LCTSQAFVGGMKSDLFDDSD KSLVCWPSGEGTSLWPDLLSDP SIVGSNLRQLARGQAGHGLGPE EDGFSLASPYSPAKSFSASDEDL IQQVLAEGVSSPAPTQDTHMET DLLSSLCAEVHTALPLHCSCLQ DSVQWHA VQQLPAFCRGPDPVT QEAQETARPAQNVLVLIPLHAA PHQAVAEIDALYDVYLDVIDK WGTDMDLFLGDFNADCSYVR AQDWAAILRSSEVFKWLIPDS ADTTVGNSDCAYDRIVACGAR LRRSLKPQSATVHDFQEEFGLD QTQASGPWGGAGLGSPPPGRT QAAGRALAISDHFPVEVTLKFH
17050	47418	A	17155	242	363	TKRQENGRRKKQDRTPTEQQLR VK*KSRSTKKRRKQSRSES
17051	47419	B	17156	1	12879	
17052	47420	A	17157	3	596	NLLFPVRSERGPHRPTPLSLWL LRPCELNKLAAAGGLAAGSSRA GALYLLIYIPRRPARAAPLCPAA ATGAPGASAGSASPASARPPGL ARAAPGLRGRPRSPRTFCV WLGVSLLSYQHYFAEPFESFQ VCCRHCGLCLTIRVHFPCLSAN PFHFSQLHLGPRPGKACHSVGL QIYNSQAHSHPSQERQLFC
17053	47421	A	17158	1	235	FFFVLYNLFLFVITSIPLOKVSIL TQRQLVAEENVKCCTVIPEPQ** *LSNYPFVEMGFCHVGPQWSR TPTPKSVSR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=-possible nucleotide deletion, v=-possible nucleotide insertion)
17054	47422	A	17159	256	4064	ADSGCKL/PSSC*HVLCA/WVTY MVMAAILHKLDQLDASRGRAI PFCGQGRGFKYEILVKTGWGR GSGTTAHVGIMLYGVDSRSGH RHLDGDRAFHRNSLDIFRIATP HSLGSVWKIRVWHDNKGLSPA WFLQHVIVRDLQTARSFFLVN DWLSVETEANGGLVEKEVLAA SDAALLRFRLLVAELQRGFFD KHIWLSIWDRPPRSRFRTRIQRAT CCVLLICLFLGANAVWYGAVG DSAYSTGHVSRLSPLSV
17055	47423	A	17160	2	347	LTSRGP/LCCVLLICLFLGANAV WYGAVGDSAYSTG/LCVQAEP AERRHSRCWPGVQRGCLSRLP GHPLSLPDVPEQGWEPHPHTC RAAGAGRRQLPGLNPCWTAPS SRSEASTLR
17056	47424	A	17161	9415	9994	ADSGCKL/PSSC*HVLCA/WVTY MVMAAILHKLDQLDASRGRAI PFCGQGRGFKYEILVKTGWGR GSGTTAHVGIMLYGVDSRSGH RHLDGDRAFHRNSLDIFRIATP HSLGSVWKIRVWHDNKGLSPA WFLQHVIVRDLQTARSFFLVN DWLSVETEANGGLVEKEVLAA SKASFRVPTPSRSPVALPAPAGG
17057	47425	A	17162	1030	1222	
17058	47426	A	17163	2	2762	
17059	47427	A	17164	25	115	
17060	47428	A	17165	1	383	
17061	47429	A	17166	120	596	IKAPCASFPTSGFPQRRSFVGR SSSTPEECGHSELGRNEDKASR GRIRQQ/PFAVLKYLLFCSLRW* YPGKQGLEWTSSKLQQTCKRY RERHKDTPQEEQLQDT*LSG/V TK/G*NEGKNVKGSRERSGYS QREAHQTNSRSLGRNSTSQKRV GASIQRS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17062	47430	A	17167	1	2236	RPSGQPQLPGSVRHPRPVLRRLPL PRAQGSSSFRPRPFAPDPTMD KFWWHAAWGLCLVPLSLAQID LNITCRFAGVFHVEKNGRYSIS RTEAA\NLCKAFNSTLPTMAQM EKALSIGFETCRYGFIEGHVVIP RIHPNSICAANNTGVYILTSNTS QYDTYCFNASAPPEEDCTSVTD LPNAFDGPITITIVNRDGRTRYVQ KGEYRTNPEDIYPSNPDTDDVS SGSSSERSSTSGGYIFYTFSTVH PIPDEDSPWITDSTDRIPATSTSS NTISAGWEPNEENEDERDRHLS FSGSGIDDEDFFISSTITTPRAF DHTKQNQD\WWTQW\NPSH\SNP EVL\LIQTTTRMTDVDRNGTTA YEGWNWPEAHPLIHHEHHEEE ETPHSTSTIQATPSSTTEETATQ KEQWFGNRWHEGYRQTPREDS HSTTGTAASAHSTHPMQGRT TPSPEDSSWTDFFNPISHPMGRG HQAGRRMDMDSSHSTTLQPTA NPNTGLVEDLORTGPLSMTTQ QSNSQSFSSTHEGLEEDKDHP TSTLTSSNRNDVTGGRDPNHS EGSTTLLEGYTSHPHTKESRT FIPVTSAKTGSFGVTA\TVVGDS NSNVNRSLSGDQDTFHPGGSH TTHGSESDGSHSGQEGGANNT SGPIRTPQIPEWLILASLLALAL LAVCIAVNSRRRCQKKKLVIN SGNGAVEDRKPSGLNGEASKS
17063	47431	A	17168	1	1980	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17064	47432	A	17169	362	2551	EDFSTSATTPTSSSPRELPSGGQL WLCWLELLPSFTRNGVVHTGP C*GLC*RWQLSPQSLPSNFGM KISDMATLITTVPA/FSSSDW NTPAPTQSPPEVRRLLHLCSTFM DMLKVGQGEAAAGLVQNP SGHALGCLDSAASGSDPSVAV LLENVPNQRGESLRCPVYVYLGQ WNCSEKGTGMDSGQFGEKGAH DPSPTYHYHACLTQWWPSPESP YPQSPGPVQKEPRNPGKSISML CLWIRYHAAADSGSSRAKLPLEE RLRPFSPTHCLAFPLPLEKRPE GNVGRCPSTGKLPEEGSGSNI CCSAIFPVLPPLV1PRQTRSGV DLQQTPTDLQRLDTRSSLP MEQSWIENDFELNRSRLQKA NKLLENLEETDKFLDTYTLPRLN QEETESLNRPTTGSIEAIINNVP TKKSPGPDGVTAKFYQRYKEE LRTVNKNHMIISIDAEEKAFDNIQ QPFMLKTLNKLGDATYLIKIRA IDDKPTANIILNGQKLEAFPLKT GTRQGCPLSPLFNIVLEVLR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLI NNFSKVSGYKINVQKSQEFLYN NNRQTEINQIMSELPFTIASKRIK YLGQLTRDVKDLFKENYNPLL NEIKKDTNKWKNIPCSWIGRINI MKMAILPKSGPSAARLLEFAGG PLQTLFAWVSPSEAAEQILPN
17065	47433	A	17170	1	483	
17066	47434	A	17171	52	321	
17067	47435	A	17172	274	393	
17068	47436	A	17173	304	415	
17069	47437	A	17174	321	796	
17070	47438	A	17175	1	198	
17071	47439	A	17176	2	454	CRVPVPAATNGRCFPAATPRDPGP RMRRACAWGRSKGAGRCLRR ATTRDKMAKKESILDLSK\YID\ KTIRVKFQGGRR\ASGILKGFEP NLL\NLVLTVTI*YMRDPDDQY KLTED\TRQLG\LVVFRG\TSLVL MCPQDGMEAI\NPFIQQQDA
17072	47440	A	17177	1	1806	
17073	47441	A	17178	1215	2065	
17074	47442	A	17179	217	441	
17075	47443	A	17180	117	296	DWSDIQLKG*SLSLSEIFQL*IV SPPALHPAKLLHRS*A*LVSPQIG RECQCGGWTAMC

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17076	47444	A	17181	2	138	LRTAPEFPGRFRGCAAAAAAES VAALL*STPPCRSGDSLCKGR
17077	47445	A	17182	222	760	
17078	47446	A	17183	192	244	YIQPVF*GWTLGCCQFF
17079	47447	A	17184	1	990	
17080	47448	A	17185	1	2196	
17081	47449	A	17186	459	1387	
17082	47450	A	17187	2	454	
17083	47451	A	17188	1	957	
17084	47452	A	17189	398	553	
17085	47453	A	17190	2	293	
17086	47454	B	17191	53	182	
17087	47455	A	17192	3	1114	
17088	47456	A	17193	1	1024	SVVEFIPSCAVVLWSSVLLSPVR LLSYLSGVPPGHMPEDSMMDM MSPLRPHNYLFGCELKAGQDY HFKVNDNEHQLSLRTVSLG\ AGAKDELHIVEAEAMYEGSP IKV/THLATLKMSVQPTVSLGG VFEITPPVVALRLKCGSGPVHISG QHLVAVEEDAEEDEEDVK/ LSLSISGKRSAP/GGGSQVPQKE RKTCMLMKDDDD\DEEDGYD EDD\DDDDDDF\DEEAEKAP SERNLRYDTPAKNAQKSNQNG KDSKPSSTPRSGQESFKKQEK TPKTPKGPSSVEDIKAKMQASI A/EKGGSLPKVEAKFINVKNC FPMTDQDAIQDLWQWRKSL
17089	47457	A	17194	2	291	
17090	47458	A	17195	185	307	
17091	47459	A	17196	3	392	VRGGQAFRQRPAPPLPVTRSAH RGRRPTRASQPSLFHLLREGK MSESSKSSQPLASKQEKDGT KRGGRPRKQPVPSPGTALVG SQKEPSEVPTPKRPRGRPKGSK/ NKLEKEEEEESQESSEEEQ
17092	47460	C	17197	76	378	
17093	47461	B	17198	1803	1905	
17094	47462	A	17199	1	416	
17095	47463	A	17200	30	407	
17096	47464	A	17201	1	993	
17097	47465	A	17202	1	1287	
17098	47466	A	17203	1	2004	
17099	47467	A	17204	1	1368	
17100	47468	B	17205	1	3035	
17101	47469	B	17206	1	981	
17102	47470	A	17207	1	2017	
17103	47471	A	17208	1	1069	
17104	47472	A	17209	1	2463	
17105	47473	A	17210	1	324	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
17106	47474	A	17211	51	1528	GREASKMAQTQGTTRRKVCYY YDGDVGNYY*GQGHMPKP/HR IRMTNHLNLLNYGLYRKMEIYRP HKANADEMTKYHSDDYIKFLR SI/RVPDNIVGSTSKQMQRFNVG EDFPSIPMACFEFCQLSTGGGVA KCL*NFNKQQTDIANWAGGL HHAKKSEASGFCYVNDIVLAIL ELLKYHQRVLYIDIDHHGDBGV EEAFYTTDRVMTVSFHKYGEY FPGTGDLRDIGAGKGKYYAVN YPLRDGIDDES YEAIKFPVMSK VMEMFQPSAVVLQCGSDSLG DRLGCFNLTIKGHAKCVEFVKS FNLPLMLGCGGYTIRNVARC WTYETAVALDTEIPNELPYNDY FEYFGPDFKLHISPSNMTNQNT NEYLEKIKQRLFENLRMLPHAP GVQMQAIPEDAIPESGDEDED DPDKRISICSSDKRIACEEFSDS EEEGEGGRKNSSNFKKAKRVK TEDEKEKDPEEKKEVTEEEKTK EEKPEAKGVKEEVKLA
17107	47475	A	17212	1	492	
17108	47476	A	17213	1	1851	
17109	47477	A	17214	1	753	
17110	47478	B	17215	427	614	
17111	47479	B	17216	1	711	
17112	47480	A	17217	750	1173	
17113	47481	A	17218	1	1224	
17114	47482	A	17219	1242	1743	
17115	47483	A	17220	423	1739	
17116	47484	A	17221	117	1183	
17117	47485	A	17222	1	377	FRRGAW/VPLLTRWGFPRGGC ISNDSPRRS/IHYRETKPEPPVRV CARGLQRTPSAGHRAVLRMPR RGRTRPGAPQGGGAALGGPARD RECACAGRAQTALRKNCVC KMPSGRGRTCSKNFSYFPS
17118	47486	A	17223	331	1134	
17119	47487	A	17224	178	1200	
17120	47488	A	17225	1	367	
17121	47489	A	17226	85	3360	
17122	47490	A	17227	8	930	
17123	47491	A	17228	1	765	
17124	47492	B	17229	120	509	
17125	47493	A	17230	232	3187	
17126	47494	A	17231	1	999	
17127	47495	A	17232	1	325	
17128	47496	B	17233	1	535	
17129	47497	A	17234	271	634	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
17130	47498	B	17235	301	523	
17131	47499	A	17236	1	1185	
17132	47500	A	17237	178	497	LPVPAYELNGSQQLPLLLGAAA IGYLAYKRFYVKDHRNKAMIN LHIQKDNPKIRHAFDMEIDLGD KAVYVCRCWRSKKFPFCDGAHT KHNKEVTGDNVGLIHKKET
17133	47501	B	17238	184	395	
17134	47502	A	17239	1	103	PAWHEGQPQPESECPQRQCIC SHGRGTPARCGVSY*ART/PAG ESP*TQQDLRAS*LGTRANHSQ RASARHKDSASAVTGAGHQ RD AE
17135	47503	A	17240	447	667	HRPRRRFQIKPQSQVPEHAPLPL PTASDPP/AHSPRCPSERLSPGG QRLGFPSSVLNCSKCSWQLAAC MGFSF
17136	47504	A	17241	265	890	
17137	47505	A	17242	1	1374	
17138	47506	A	17243	1	6189	
17139	47507	A	17244	1	8277	
17140	47508	A	17245	178	1177	
17141	47509	A	17246	1	447	
17142	47510	A	17247	1	465	
17143	47511	A	17248	3	3910	
17144	47512	A	17249	2	1871	
17145	47513	A	17250	1	666	
17146	47514	A	17251	1	635	FPGRFRRAVWCTHCCAPTSPG PVLPHSAAMSFLKSFPFPGPAE GLLRQQPDTEAVLNGKGLGTG TLYIAESRLSWLDGSLGFSLE YPTISLHALSRDRSDCLGEHLY VMVNAKFEEESKEPVADEEEE DSDDDEVPITEFRFVPSDKSAF* FPSCSVEAMFTAMCECQALHPD PEDESDDYDGEEYDVEAHEQ GQGDIPTFYTYEEGLS
17147	47515	A	17252	1	2796	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in U.S.S.N. 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
17148	47516	A	17253	1	2393	MEIRGALDLRKRQVLIFLVLLG LSRAGTESAHYSVAEETEIGSFV ANLARDLGLGVEELSSREARV VSDDNKKYLHLDLLTGNLLLN EKLDRLDELCGSTEPCVLHFQVV LENPLQFFRFELCVKDINDHSPT FLDKEILIKISEGTTVGATFLME SAQDLVVGNSNLQNYTISPNSH FYIKIPDSSDRKIYPELVLDRAL DYEQEAELRLTLTAVDGGSPPK SGTTLVLIKVLINDNNAPEFPQS LYEVQVPEDRLPSWIATISAK DLDAAGNYGKISYTFHASEDIR KTFEINPISGEVNLRSPLDFEVIQ SYTINIQA TDGGGLSGKCTLLV KVMDINDNPPVEVTISSITKRIPE NASETLVALFSILDQDSDGNGR MICSIQDNL PFFLKPTFKNFFTL VSEKALDRESQAEYNITITVTDL GTPRLKTEYNITVLLSDVDNDNA PTFTQTSYTLFVRENNSPALHIG SVSATDRDSGTNAQVNYSLPP QDRHLPLASLV SINADNGHLFA LRSLDYEALQEFERVGATDRG SPALSSEALVRVLVDANDNL PFVLYPLQNGSAPCTELVPRAA EPGYLVTKVVAVDGDGSGQNA WLSYQLLKATEPGLFGVWAHN GEVRTARLLSERDAAKHRLVV LVKDNGEPPRSATATLHVLLVD GFSQPYLPPEAAPAQADLL TVVYLVALASVSSLFLLSVLLF
17149	47517	A	17254	89	1283	
17150	47518	A	17255	1	276	
17151	47519	A	17256	2	259	WQGGILGSDPTPPLTSPNLLQT ACFREERDV/RRERGQPLGDHS ALCLPRRGVPPCDGLLCWWG PPDAAEPLRGSPARAGPVLPG
17152	47520	A	17257	624	4055	
17153	47521	A	17258	3	1784	
17154	47522	A	17259	1	1272	
17155	47523	A	17260	3	576	
17156	47524	A	17261	1	1017	
17157	47525	A	17262	1	1107	
17158	47526	A	17263	256	634	
17159	47527	B	17264	76	1340	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, * =Stop codon, / =possible nucleotide deletion, \ =possible nucleotide insertion)
17160	47528	A	17265	1659	2107	NLLCCTCSPFSSPVSAPOCTCTSN CIAILVHQQQWLVSLLQKHFF LHLHIFLA/LVFNFSLSHSF*IFDF DPWKLPP*PISPTLSSLPSNRHIA LILPCSCMTEDFDKMPPAVAR YMTSPQAVHIIAVCPFKASRKV SHSSLKIWLKFSV
17161	47529	A	17266	248	540	KFFSLRMLNPNHCLLACRVSA ERSAVSLMGFPLCISRPFSLAAL NIFSFISTLVNLMHISLGVALLEE YLCGLCIS*IGMLACLARLGKF SWIIR
17162	47530	A	17267	4880	5121	
17163	47531	A	17268	468	602	CLQLCSFGLGLTW*CGLFFYST *TLK*FPIL*RMVVF*WGLH
17164	47532	A	17269	359	462	
17165	47533	A	17270	457	600	LWWFNALFLCWLSFTLTTLLE LHECLPVWRD*TRRH.TGWSK GSCTN
17166	47534	A	17271	2405	2830	TPVFRFIALSYTFADSDGEYF*IL LSENPQRFKCCFNMRSNKIPW DTFANSIKGAEFSGKHFIETFISS SESESESESTRFRDFRGLETSSSL SLDSFSLGDDFLSFLSFTIDA VSSKRLSKEIRKARLCWRFPRI
17167	47535	A	17272	1	2172	
17168	47536	B	17273	446	625	
17169	47537	B	17274	1	2604	
17170	47538	A	17275	1	3039	
17171	47539	B	17276	1	1383	
17172	47540	A	17277	1	993	

SEQ ID NO:	SEQ ID NO of peptide sequence	Method	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17173	47541	A	17278	3	2494	RSTRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTEYTFSSAPH HTYSKIDHIVGSKTLLSKCKRTE IITNYLSDHSAIKLELRKLNLTQS RSTTWKLNLLNDYVWHNE MKAIEIKMFFETNENKDDTTYQN LWDAFKAVCRGKFIALNAYKR KQERSKIDTLTSQLEKELEKQEQ THSKASRRQEITKIRAELEKEIET QKTLQKINESRSWFERINKIDR PLARLIKNNKREKNQIDTIKNDK GDITTNPTIEITIREYYKHLA NKLLENLEMDITFLDTYTLPRLN QEEVESLNRPIITGSEIVAIINSLP TKKSPGPDGFTAIFYQRYKEEL VPFLKLFQSEIEGILPNSFYE ASIIIPKPGRDITTKENFRPISL MNIDAKILNKILANRIQQHKKL IHHDQVGFIPGMQGWFNHKS NVIQHINRAKDKNHMISDEEK AFDKIQQPFMLKTLNKLK/DKI PRNPTYKGCEGLQGLQTTAQ GNKRGHKQMEHSMMLGRKN QYHENGHTAQ/IL*IQCHPHQ ATNDFLHRIGKNYFKVHMEPK KSPHRQVNPKEQSWRHHTT *LQTLQGYSNQNSMVLVPKQR YRSMQENRALRNNAAYLQLSD L*QP*EKQAMGKGFI* MVLG KLASHM*KAETGSLPYTLKYN QFKMD*RFKR*T*NHKNPRKRP RHYHSGHRHGGQLHVQNTKSN
17174	47542	A	17279	285	502	
17175	47543	A	17280	1	3189	
17176	47544	B	17281	1	1235	
17177	47545	A	17282	1	3139	
17178	47546	B	17283	1	1779	
17179	47547	B	17284	1	3127	
17180	47548	A	17285	1	3325	
17181	47549	A	17286	1	3145	
17182	47550	A	17287	1	1095	MIMGDFNTPSLDTRSTRQKVN KDIQELNSALHQAADLIDIYRTLH PKSTEYTFSSASHTYSKIDHIV GSKALLSNCKRTEIITNYLSDHS AIKLELKIKKLTNNRSTTWKLN NLLNDYVWHNEMKAIEIKMFF ETNENKDDTTYQNLDWTFKAEC RGKFIALNAHKRQERSKIDTL TSQLEKELEKQEQTHSKASRRQE ITKIRAELEKEMETQK/TLQK/INE SRG/WKKFLEKLCFELS*ARRI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
17183	47551	A	17288	1	3229	
17184	47552	A	17289	1	1205	
17185	47553	A	17290	1	986	
17186	47554	A	17291	1	3170	MGDFNTPLSTLDRSMRQKVKK DTQELNSALHQADLIDYRTLH PKSTEYTFPSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDGS AIKLELRINKLNTQNRSTTWKLN NLLNDYWVPNEMKAEIKMFF ETNENKDTTYQNLWDFKAV CRGKFIALNAHKKRQERPKIDT LTSQLEKEQEQTSHKASRRQ EITKIRAELEIETQKTLQKIN*S QSWFFERVKKIDRPLARLIKKK REKNQIDTIKND
17187	47555	B	17292	1	2148	
17188	47556	A	17293	1	1416	
17189	47557	A	17294	1	3099	MGELITPLSTLDRSTRQKVNKD TQELNSALHQGDLDIYRTLHP KSTEYTFPSAPHHTYSKIDHILG SKALLSKCKRTEIITNYLSDHSA IKLELRINKLNTQNRSTTWKLN LLNDYWIHNEMKAEIKMFFET NENKDTTYQNLWDAFKA VCR GKFIALNAHKKRQERSKIDTLT SQLKELEKEQEQTSHKASRRQEI TKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
17190	47558	A	17295	1	3345	
17191	47559	B	17296	1	3122	
17192	47560	A	17297	1	2118	
17193	47561	A	17298	965	4091	
17194	47562	B	17299	15	2762	
17195	47563	A	17300	1	3049	MTVKVRITVTSGKKPPWLIPRQ TGYGVDLWQPTDQLRLVLT RRKTNKQKGHPHQNPICTSPSS KTKDRSTRQKVNKDQELNSAL HQEDLDIYRTLHPKSTEYTFPS APHHTYSKIDHIVGSKALLSKW KRTEITANCLSDHSAIKLELRJK KLTONWSATWKLNNLLNDC WVHKEMKAEIKMFFETKENK\ DTTYQNLWDAFKA VCRGKFIA LNAHKKRQERSKIDTLTSQLE LEKQEQTSHKASRR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, v=possible nucleotide insertion)
17196	47564	A	17301	3	4101	PLSTLDRSTRQKVNKDIQELNS ALHQVDLIDYRTLHPKSTEYTF FSVPHHNYSKIDHIVGSKALLS KCKRTEIITNCLSDYNAIKLELR TEKLTQNRSTTWKLNPNLND YVWHKEMKAEIKMFFETNENK DTTYQNLWDAFKAVCRGKFIA LNAHKRKQERSKIDTLTSQKKE LEKQEQTSHSKATRRQEITKTRA ELKKIETQKTLQKINESRWFFE KTNKIDRLLATLIKKKREKNQI GARKNDEGAITTN
17197	47565	A	17302	1	3234	MANKNNQCREVLKGPDELKT MAREPHDKCTSFSSQFDQLEER VSAMEDQMNMKREEKFREK RIKRNEQRLQEIWDYVYKRPNLC LIGVPESDGENGTKLENTLQDII QENFPNLRQANIQIQEIQRMP QRYSLRRTTPRHIIIVRFTKVEM KEKMLRAAREKGRVTHKGKPI RLTADLSAETLQARRESTRQKV NKDIQELNSAQHQADLTDNYR TLHPKSTEYTLFSAPHHTYSKID HIVGSKALLSKCKRTEI
17198	47566	A	17303	1	3390	MLTLNHNRLTDAILNISTCLSR HLDLNTGGKKRISYKRNLYME EHLEGLCSNEFTWENSTIMTDS QMLMHREEPGLPNIPILSIVFT NNRSKRQKVKNKDIQELNSALH QADLIDYRTLHPKSTEYTFESA PHHTYSKTRIVGSKALLSKCK RTEIITNCLSDHSAIKLELRKIKL TQNCSTTWKLNLLNDYVW HNEMKAEIKMFFETNENKDTT YQNLWDTFKAVCRGKFIALNA HKRKQERSKIDTLTS
17199	47567	B	17304	1	2427	
17200	47568	A	17305	1	4257	
17201	47569	A	17306	1	3726	MVVKTNARELRDECTSLSSPFN QLEERVSMENQMNMKQEE KFREKRKRNEQSLQEIWDYVK RPNLCIGVTESDGENGTKLEN TLQDITQENFPNLARKANIQIE TQRTPORYSRRATLRHIIIVFT KVEMKEKMLRAAREKDFTPTK IKRDKEGHIYIMVKGSIQEEELTI LNIIYAPNTGAPRFIKQVLSDLQ RDLDSHTLIMGDFNTSLTLDR SMRQKVNKDQELNSSLHQAD LIDYRTLHPKSIE
17202	47570	A	17307	1	1059	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17203	47571	A	17308	130	1092	
17204	47572	A	17309	1	924	
17205	47573	A	17310	1	1206	
17206	47574	B	17311	1	1257	
17207	47575	A	17312	1	685	MEIILRICKLTISKELLDGSSRL TMTHYKHHRYFSHSAEEQIIEEL NESEMICQHHHTAENDFDELRE EGFRRSVITNFSKLKEDVQTHF KEAKNLEKRLDEWLTRINSVEK TLNDLM*LKTVA*ELRDYTSF NSRFDQVEERVSVIEDQMNMEN EREKFKREKRV*RNQSLQEIW NYVKRPNLHLIGVSEIDRENGT KLENTLQDIFQENFTYLARQAN IQIQEI
17208	47576	B	17313	70	1227	
17209	47577	B	17314	640	751	
17210	47578	A	17315	1	2328	MGVSGAQPGRSCWHRSSGTSGQ GLGPVPEPADCGGEAAGRARE EGTVSLTMTGADSDMAPEAP QHTHIDVHHQESALAKLLTTC CSALRPRTAQRGSSRLVASW VMQIVLGILSAVLGGFFYIRDY TLLVTSGAAIWTGAVAVLAGA AAFIYEKRGGTWALLRTLTLT AAFTAIAALKLWNEDFRYGYS YYNSACRISSSSDWNTAPTQSP EEVRRLLHLCTSFMDMLKVGGO GEGAAAGLVQNPSSGHALGCLD SAASGISDPSVAVLLENVPNQR GESLRCPVPLYGQWNCSEKGT MDSGQFGEEKGAHDPSTTYH ACLSQWVWSPSPSPYQPSGPQ VKEPRNPGKSISMLCLWIRYHA ADSGSSRAKPLEERLRPFSPHT DCLAFPLPLEKRPEGNVGSRC SGTKLPEEGSGSNICCSAIFPVL QPPLVIPRQTRSGVDLQQTPTD LQLRDLTVRRKTNKQKQHPHQ NPMCTSPSSKTKELKEDVTRTHH KEAKNLEKRLDKMVMNRINSVE KTLNDPMELKTQARELHDKCT SFSSRFQLEERVSVTEDQMNE MKREEKFKREKRV*RNQSLQEI IRDYVKRPNLCLTGVPESDGEN ETKLENTLQDNQENFPNLRARQ ANIQIQEIQRTPQRYSSRRATPR HIIVRFTKVKEMKEMLRAGE KGQVTHKGKPIITLADLLAETL
17211	47579	A	17316	508	666	
17212	47580	A	17317	622	780	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,409,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
17213	47581	B	17318	1	777	
17214	47582	A	17319	1	508	MSGFEKQYKKIRLDKTLDSENE GLELPVPAKRSLGVRLYACC GLLLCPAYPQHFAHGYVDKIPG YPGRAGTLTGLHPMQVCRCR QAPCLKSNNALIVILGTVTLD VGIGLVMPVLPGLLRDIVHSDS ASHYGVLLALYALMQFLCAPK YKLPSNTTNTSMQIN
17215	47583	B	17320	310	1047	
17216	47584	A	17321	1	1101	
17217	47585	A	17322	577	735	
17218	47586	A	17323	337	642	
17219	47587	A	17324	2	653	
17220	47588	A	17325	2	935	
17221	47589	A	17326	532	729	
17222	47590	A	17327	1	675	
17223	47591	A	17328	1	684	
17224	47592	A	17329	2	641	
17225	47593	A	17330	1	808	
17226	47594	A	17331	562	675	
17227	47595	A	17332	2	1687	DTGNNEWKQQEGLSHNNWLG LGCLFGPETPIFYPATLGHSTSIY YERKKEDKNGMKEEHDTVA MFFTLFNFQISVENIRKGPVV GESIAQSYLNVVQEIFRSRNHQ LLQDLTRDLCDNLKTCHTSHGS VMAETA VINHKKRKNSPRIVQS NDLTEAA YSLSRDQKRMLYLF VDQIRKSDGTLQEHGICEIHV AKYAEIFGLTSAEASKDIRQAL KSFAGKEVVFYRPEEDAGDEK GYESFPWFIKQRSNLGVRLYAC CGLLCPAYPQHFAHGYVDKIP GYPGRAGTLTGLHPMQVCRCR RQAPCMKSNNALIVILGTVTLD AVGIGLVMPVLPGLLRDIVHSD SIASHYGVLLALYALMQFLCAP VLGALSDRFGRRPVLLASLLGA TIDYAIMATTVPVRGHSVLKKGKQ HKSVENLQPDNVIEKKIPFSGEK FKPAAEICKSNRELNVNHQDNG ENVSRA CQRLLQLPSQA WRF RRKNWFCGPGWSPFSVQSRD LVPCVPAAPALTKRGQGTQA VASEGSPKPWQLPHGVEPAG AQKSRAEVWEPPRFQKM
17228	47596	B	17333	12	60	
17229	47597	B	17334	253	2103	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17230	47598	A	17335	469	2512	PTSAYERGQRFASRLQMNLEY FLRWLMAKIFQAPCMKSNNAL LIVILGTVTLDAVIGLVMFVL PGLLRDIVHSDSIASHYGVLLAL YALMQFLCAPVLGALSDFRGR RPVLLASLLGATIDYAIMATTP VLWIYPLVNVSKSDDTLKINGV EDHKTIFDGDGKTYQNVQQFID EGNYTSGDNHTRDPHYVEDK GHKYLVEANTGTENGYQGEE SLFNKAYYGGGTNFFRKESQKL QQSACKRDAELANGALGIIELN NDYTLKKVMKPLITSNTVTDEI ERANVFMNGKWYLFDSRGS KMTIDGIKLNDIYMLGFVSNSL TGPYKPLNKTGLVLQMVLPDN DVTFTNFYLPGPQAKANMWLL QAHDKKSFSSRIKGTFGPAL
17231	47599	A	17336	2393	2945	
17232	47600	A	17337	980	1732	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
17233	47601	A	17338	1	2400	GRPFPRPRLCQRRRLGGGRMK MTGDFEECLKDSRPFRAALEEV EGDVAEELKLDKLVKLGAMI DTGKAFCVANKQFMNGIRDLA QYSSNDAAVETSLTKFSDSLQE MINFHTIL/L*PNSINLRHSFSN FVKEDLRKFDAKKQFEKVSE EKENALVKNAQVQRNKQHEVE EATNILTATRKCFRIHALDYVL QINVLQSKRRSEILKSMLSFMV AHLAFFFHQGYDLFSELGPMYK DLGAQLDRLVGDAAKEKREME QKHSTIQKDFSRDSDSLKYNV DAANGIVMEGYLFKRASNAFK TWNRRWFSIQNNQVVYQKKFK DNPTVVVEDLRLCTVKHCEDIE RRFCFEVSPTKSCMLQADSEK LRQAWIKAVQTSIATAYREKG DESEKLDKKSSPSTGSLDSGNE SKEKLLKGESALQVRVQCIPGNA SCDCGLADPRWASINLGITLCI ECSGIHRSGLGVHFSKVRSLTLD WEPELLKLMCELGNVDINRVY EANVEKMGIIKPQPGQREQEKE AYIRAKYVERKFDKYSISLSPP EQQKFVSKSSEKRLSISKFGP GDQVRASAQSSVRSNDSGIQQS SDDGRESLPSTVSANSLYEPEG ERQDSSMFLDSKHLNPLQLYR ASYEKNLPKMAEALAHGADV WANSEENKATPLIQAVLGGSLV TCEFLQNGANVNRQDVQGRG
17234	47602	A	17339	1	782	
17235	47603	A	17340	1	475	
17236	47604	A	17341	1	852	
17237	47605	A	17342	432	696	
17238	47606	A	17343	3	296	ETEIEALKEELLFLKKNQEEFV KGLQAQIAISGLTVEVDVPKSQ DLAKIMADIWAQ*DELEDGEDF SLRDALDSSNSMQTIRKTTTRPI VSGWQSGV
17239	47607	A	17344	2	292	SQKKGLVGALTNPPHFPCPHL *EVKGLQAQIASSGLTVEVDAP KSQDLAKIMADIRAQYDELAR KNREELDKYWSQQVREGKGM GCQGVGGRQTE
17240	47608	A	17345	1	908	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid in peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17241	47609	A	17346	1	1452	TGPEFHDLRLVRRRPQSLSPVL LLSSPDMSFTTRSTFSTNYRSL GSVQAPSYGAGPRRAARPASY AGAGGSGSRISVSRSTSFRRGM GSGSLATG\IAGG\LAGMG\GIQ NEKETMQSLNDRLASYLDRVR SLET\ENRRL\ESKIRE\HLEKKG PQ\VRDWSHYFKINEDLRA\QIF ANTV\DNARIVL\Q\DNAPSCVR DDFR\VKY\ETELA\MRQSCWRT DIHGAPQGFDDTNYHTDLQL EKTEIRGSSRRELLFQ*RRNHEE /EKLKGLQAQIAQFLGLTRGRLL DCPQIFRDLRQDSWADIRGPIID ELASEEPRGSLDKY\WSQQHEE STTVVTTQFAEVEAAETTLTE LRRTVQSL\ENDLDSMRNLKAS\ LENSLREG*RPAYALQMEQLN GILLHLESELAQTRAEGORQA QEYEAALLNIKVKLEAEIATYRR LLEDGEDFNGLDALDSSNSMQ TIQKTTTRRIVDGKVVSEINDTI
17242	47610	A	17347	467	843	
17243	47611	A	17348	114	1363	
17244	47612	A	17349	2	281	
17245	47613	A	17350	1	588	
17246	47614	A	17351	184	354	
17247	47615	C	17352	391	657	
17248	47616	A	17353	1	2010	
17249	47617	A	17354	2	443	VPDLPPSHRGFRAAQGGLPPKN KVAALPSWGSANQNSSARWEL VSPPIHRRGS*GPGETGDLGGSS IQRAVELRLVQAFVVPKSSLRD PSREGRGGWAG*VQTKGA*AR PTLLWAPKR\DRGGKAAPTSTW NSPKAGCPSARSSPAPP
17250	47618	A	17355	1	1359	
17251	47619	A	17356	260	380	
17252	47620	A	17357	153	273	
17253	47621	A	17358	270	484	AKYRGTSRRLKALGAHVVPKQ PIPAWQHKKDPSGGRPEEGVKL YREKEFSS*TL*/RI*TPGDWA YAWADAW
17254	47622	A	17359	2	941	
17255	47623	A	17360	1	615	
17256	47624	A	17361	911	1472	
17257	47625	A	17362	2	442	
17258	47626	B	17363	76	235	
17259	47627	A	17364	38	190	
17260	47628	A	17365	134	523	
17261	47629	B	17366	1	1776	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, v=possible nucleotide insertion)
17262	47630	A	17367	394	554	
17263	47631	A	17368	22	831	
17264	47632	C	17369	1	1191	
17265	47633	A	17370	199	647	PSVPTGSRNRRTTAVAVEERQSDGSGSLSPGKIQTTTTGIIIPALLHITGAPVSSDFRLDWLIERPKGGRRAELSIKSLALPLPQHCGSDNDWIPQLRLLSRASFSHSDDDLFGGAYRRLLALHILCIHSSKEALELNTFQPVTFNLNAFSK
17266	47634	A	17371	1	2697	
17267	47635	B	17372	25	1698	
17268	47636	A	17373	2	218	ASLRSSPFSRSLRCQGNTPERSGLPKALFCTKPSR\ADLGPAGHRRPLPSVQPG*AIPGRVSRGEKNLTNR
17269	47637	A	17374	2	2543	
17270	47638	A	17375	198	403	PQALREHSPSV*TGRQDRQLLFKDCTCQRQRDDVDSVQGKRRLHISSPQGLNSFPAVSLKLEHNVKAE
17271	47639	A	17376	58	543	VLYRSSRMCKIRVLISRPFSIVKICERVLSTQSGRHDYAAAAVSKTGQKRIHSSGTRGSGAPHS PGWWEPSDRVGVSI CFLFSLK YRLFSSCLVQPCLG PVLGNNSC SPEGPREPSPPSHGLGFPMCT* TQVPASTTQSDNGQNHNP GCP MPISPDS
17272	47640	A	17377	14	701	
17273	47641	A	17378	91	309	GRKQFPHLATGKEGCVGGQRLPCVTVELIFPAPAGAAVPRRP*L PRTAPS*LHCLPVC RMPGEAPT ARHAAWV
17274	47642	A	17379	2	2625	
17275	47643	A	17380	1	1752	
17276	47644	A	17381	3257	3412	
17277	47645	A	17382	1	1091	
17278	47646	A	17383	233	1148	
17279	47647	A	17384	1	1716	
17280	47648	C	17385	162	356	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
17281	47649	A	17386	836	2106	AKKFRKRWPLEEQEQNPVDGG AAPVTALRKRVTSQRCSLEFLE DAVGCAPAQRYTPPSAPSSTTP LGLPLT/TCGARGSWEEKSDLC PLPCRTHKHTSGSPRHGGLKKT FIKNMRQYDTRNSRVLICAKR SLCAAFSVLPYGEGLRISDLRV DSQKQRHPSGGVSVSSEMVFEL EGVELGADGKVVSYAKFLYPT NALVTHKSDSHGLLPTPRPSVP RTLPGSRHKPAPTCSAPASTEL GSDVGDITLEYNPNLLDDPQWP CGKHKRVLIFASYMTTVIEYVK PSDLKKDMNETFREKFPVKLT LSKIRSLKREMRSLSECSLEPV TVAMAYVYFEKLVQGLKLIKQ NRKLCAGACVLLAAKISSDLRK SGVTQLIDKLEERFRFNRRDLIG FEFTVLVALELALYLPENQVLP
17282	47650	A	17387	1	2531	
17283	47651	A	17388	1	1506	
17284	47652	A	17389	34	576	
17285	47653	A	17390	112	1840	EELRVREHVTGGICGGSQMMV DLLGATTELVAVAPWVMSAA AGGKNLKSHPKVEVDIINDFI LRWNRSDSVGNVTFSDYQK TGMNDNWIKSGCQNTSTKCNF SSLKLNVEEIKLRIRAEKENTS SWYEVDSFTFRKAQIGPPEVH LEAEDKAIVIHISPGTKDSVMW ALDGLSFTYSLLIWKNSSGVVE RIENIYSRHKIYKLSPETTYCLK VKAALLTSWKIGVYSPVHCIT TVENELPPPENIEVSVQNQYV LKWDYTYANMTFQVQWLHAF LKRNPNGHLYKWKQIPDCENV KTTQCVFPQNVFQKGIYLLRVQ ASDGNNTSFWSSEIKFDTEIQAF LLPPVFNIRLSLDSFHIYIGAPKQ SGNTPVIQDYPLIYEHFWENTS NAERKIIKKTDVTPNLKPLT VYCVKARAHTMDEKLNKSSVF SDAVCEKTKPGNTSKIWLIVGI CIALFALFPVIYAAKVFLRCINY VFFPSLKPSSSIDYFSEQPLKNL LLSTSEEQIEKCFIENISTIAIVE ETNQTDDEHKKYSSQTSQDSG NYSNEDESEKSTSEELQQDFV
17286	47654	A	17391	3	373	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, /-possible nucleotide insertion)
17287	47655	A	17392	1	432	LPRFVGQQPRPLGPLRGSGSEG CRAPGEAVRAPDYAFPIPGTRA S/PLNRFPLGGTAWPQAHPTNP KPAPAPGAQLDDPPRYSRHGLS RWGLPLQSLVLLPPLQRPMPLPQ AAAPNTPWPPWTLRAGRREN AHAQRKLHLWAGKVE
17288	47656	A	17393	98	376	
17289	47657	A	17394	1	364	
17290	47658	A	17395	1	1230	
17291	47659	A	17396	892	2004	RRMSFMSSEVLVGLGMSPFQDS GLGAEESLGLDDYL/EVAKHF KPHGFSSDKAKAGLLPNGLAV/ DGLVSPSNNKSKE/DAFISGTDW DVGKRWVLKEFDGCPCLGIE* PWETIARLTFLTTFGIDICDSELLP P*FQGRLIKAAPRRLNPIGHLP QKFLTKPRPGLAPFTF/LQPL/PL SPGVL/SSTPDSFPFSFRSWSG*K WDIH*KGD*/RKPDYTAIYVAMI PQCIKE/EDTPSDND/SG/ICMSP ES/YLGSPPQHSPSTRGSPNRSPL SPGVLGCSARPKPYDPPGEKMY AAKVKGKLDKLLKKMEQNK TAATRYRQKKRAEQEALTGEC KELEKKNEALKERADSLAKEIQ Y/LKDLIEEVKARGKKRVP
17292	47660	A	17397	43	1300	DSCCIQGTMLRSRTQQRPGVEG SLKQHQRLHSNFSSINESVFIVS FSLNTIGSGRGAEGEP/GREPL SRPQPAGPLGGALPAPP/SLMP QL*SE*GRL/LQLLYLLLQ/PAVC SCSRCSAPRSRCVARPAARTGL PTPAPASSP/CSRSLSRSSRLSSSC RVSCCHSLSSCCRSLSCSRSSST SSRSSSTSSSLSLSSSLSCSSCRL SCSNSFSTSSSLSLSSSLSCSSC CLSCSNSFSTSSSLSLSSSLSCS SCRLSCSNSFSTSSSLSCPGSFS CSHSLSSCSRSLSSCSHSLSSCSR SLSSCSHSLSSCSRSLSSCSHSL SCSRSLSSCSHSLSSCSRSLSSCS CSLSSCSRSLSSCSHSLSSCSHSL SSCSRSLSSCSCLSSCSRCLSSC SCSLSSCSRSLSSCLLFRRLNI
17293	47661	A	17398	288	574	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, v=possible nucleotide insertion)
17294	47662	A	17399	230	648	VIAPGLWMMAADIPRVTTPLSS LVQVPQEEEDRQEEVTTMILED DSWVQEA VLQEDGPESEFPFQS AGKGGPQEEVTRGPQALGRL REL CRRWLRPEVHTKEQMLTM LPKEIQAWLQEH RPESSEAAA LVEDLTQTL*DSWVQEA VLQ DGPESEFPFQSAGKGGPQEEVT RGPQALGRLREL CRRWLRPE VHTKEQMLTMLPKEIQAWLQ HRPESSEAAA LVEDLTQTL
17295	47663	A	17400	105	381	SSGFWPLRFPLDVIAVSTIAVH EKEESLWPRVAVFSTLAP/ESPP WGEAPQSAGR*SGVPEDHVL R YRG TSLSLACCSSRIHPPAQLS HYKN
17296	47664	A	17401	1023	1915	
17297	47665	A	17402	3	277	QVLLQGALLLLITVAQAGRVLK LGVSRFQDLILWGKETFR/C GPGCSPALHLPQGSSIP/SSQQL *YLA AEQPLHRGPPTAPVVS GAE
17298	47666	A	17403	3	299	
17299	47667	C	17404	46	398	
17300	47668	A	17405	171	403	GKNSTLQQFNLLHYSSITVAV NNPTLGNVS VFLYILFTGIHQ LVKVILRKLK*RGFLELASLSL LFLPPVSLF
17301	47669	A	17406	291	467	
17302	47670	A	17407	2	395	DHAYVFLGRTACYLMKAYRK VNP RIVFSSNTIETHPKDLHSC DHPFAEKTQFTVSTLDDVKN SG SIRDNYCRTSEISAVHIDTECVS VMLQAGTPPLQVK*KKNFQQR KQG*KMKWDPSDISNSMAEVL
17303	47671	A	17408	1	149	EKEIPGPWLLGAMRFRFCGLD CPDWVLAESTLAK/IPL*SCGCS AARY
17304	47672	A	17409	555	1156	QFYNKTPSRSECPNLLHMRTE GPPGGVDQPDGHQAGWPPPEP AGQQRGRQSGCHLLQGGASPR PSCGTVHARACTPPASCPCHHR YRSHLQRGKWWPK/GLPQHTR LDHTEVLGAAEGSTVSAVP SAT RAARDHVRR LQTRKCFCKGAL LLLITAAARAGRVLFGQPQLLQF TGQGF AIDTVLGRGTGEDETHC HCGLHIA
17305	47673	A	17410	3	366	
17306	47674	A	17411	408	1702	
17307	47675	A	17412	1	2661	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
17308	47676	A	17413	2	2288	
17309	47677	A	17414	1	1992	MGDFNTPLSTLDRSMRQKVNK DIQELNSAVHQVLDLIDYRTLHP KSTEYTFFLAPHRTYSKIDHIVG SKALLSKCKRTEIIRNCLSDHSA IKLELRINKLTQNCSTTWKLN MLLNDYVWHNEMKAEIKMFF ETNENKDTTYKNLWDTFKAVC RGKFIALNAHKRQKERSKIDTL TSQFKELEKQEQTSHKASRRQE ITKIRAELEKEIETQKTLQKINESR SWFFEMISKIDRPLARLIKKKRE KNQIDTIKNDKGDIIIDPTEIQTT IREYYKHLIAIKLENLEEMDKF PYTNTLPRLNEEEIESLNRITITGS EIEAIIKSLPTKKSPGPDGFTAKF YQRYKEELVPFLKLLFQSIEKE GILPNSFYEASIIIPKP/DVGSSS QGNQAGERNKGYSFRRKGSQI VPVCR*YDCTFRKSHFLSPKSP* ADKQLQQLRIQNQC AKITSPI HHQQTNREPHE*TPIHNCFKE NKIPRNPTYKGC EGPLQGELQT TAQ*NKKGHKQMEEHSMLMD RKNQYRENGHTAQGNLQIQCH PHQATNDFLHRIGKNYFKVHM EPKKSPPHQDTPKQKE*SWRH HAT*LQITLQGYSNQNSMVLVP KQRYRPMQNRALRNNTTHLQ QSDL*QT*QKEEMGKGFPI**M VLGKLASHM*KAETGSLLYIL
17310	47678	A	17415	1	1677	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17311	47679	A	17416	1	2178	MGDFNTPLSTLGRSTRQKVNK DTQELNSALHQADLDIYGTLLH PKSTEYTFFSAPHHTYISKIDHIV GSKALLSKCKRTEIITNCLSDHR AIKLELRICKLTQNRSTTWKLN NLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDTFKAVC RGKFIALNAHKRKQERSKIDTL TSQLKELEKQEQTSHSKASRRQE ITKIRAELEKEIETQKTLQKINESR SWFFERINKIDRPLARLIKEKRE KNQIDATKNDKGDITTDPTIEI TTIREYYKTLYANKLENLEEMD KLLDITYTLPRLNQEEVESLNRP TGSEVVAINSLPTKNSPGPDGF TAKYYQRYKEELVPFLKLFQS TEKEGILPNSFYEAASILPKPGR DTTKENFRPISLMNVDAKILN KILANRIQQHIKKLIHHDQVGF PGMQGWFNICKSINVIQHINRT KDKNHMIIISIDAFAFDKIQPF MLKTLNKLVLVLARAIRQEKE JGIGQLGKEEVKLSLFADDMIV YLENPIISAQNLLKLSNFSKVS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRKYLGLQLTR DVKDLFKENYKPLLNEIKEDTN KWKNPSCSWGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRARITKSILSQKNK AGGITLPDLKLYYKAIVTKTA WYCYQNRDIDQWNRTEPSEIM
17312	47680	A	17417	1	1770	
17313	47681	A	17418	1	1101	
17314	47682	A	17419	1	1614	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, \ =possible nucleotide insertion)
17315	47683	A	17420	1	1878	MVLALTGNKADLASKRPLEFQ EAQAYADDDSWLFMETSAGK AMNVNEIFMAIAEKLPKNKPN NAAGAPDRNQGYLSACEFSGR KLPKQTTHIKHQLRTKLCGAS YASSNLIPRKL YEPLLVIPRKTG SGVDLQQTPTDLQLWVLTVRR KSNKQKGYPHQNPICMLPSSKT KDFKPTKIKRDKDGHYIMVKG SIQQEELTVLNINAPNTGAPRFI KQALRDLQRDLDSHTIIMGDFN TPLSTLDRSTRQKVNKDQELN SALHQADLDIYRTLHPRSKDY TFFSAPHHTYSKIDHIVGSKALL AKCKRTEITRNCLSDHSAIKLEL RIKKLTQKCSTTWKLNLLND YVWHNEMKAIEIKMFFETNENQ DDTTYQNLWDTFKAVCRGKFIA LNAHKRKQERSKIDILTSQKE LEKQEQTTHSKASRRQEITKIRVE LKEIKTQKTLQKINESRSWLFE KINKIDRQLARLIKKKREKNQID AIKNDKGDITDPTIEQTITREY YKHLAYAKKLENLEEMDKFLDT YTLPRLNQEEVESLNRPIGTSEI EAIHKSLLPAKSPGPDGFTAIFY QRCEKELAQFLRLFKSTEKEGI LPNSFYEDSIIILPKPGRDITK KENFRPISL
17316	47684	A	17421	1	1761	
17317	47685	A	17422	1	1875	
17318	47686	A	17423	1	1611	
17319	47687	A	17424	1	4539	
17320	47688	B	17425	1	6294	
17321	47689	A	17426	2	1913	
17322	47690	A	17427	1	1026	
17323	47691	A	17428	1	2112	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=-Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
17324	47692	A	17429	1	1884	MENGFDELREEGFRSSNYSELO EEIQTGKGEVKNIEKNLDECITR IPNTEKCLKKLMEKTKARELR EECISLRSRCDQLEESVSMED EMHEMKREGKFREKRIKRNEQ SLQEIWDYVVKRPNLRLIGVPED RSMRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTEYTFSSAPH HTYSKIDHIVGSKALLSKCKRT EITNYLSDHSAIKLELKIKKLTQ NFSITWKLNNLLNDYVWHN KMKAEIKMFFETNENKDDTYQ NLWDTFKAVCRGKFIALNAYK RKQERSKIDLTSLQKLEKEQE QTHSKASRRQEITKIRAEKIE TQKTLOKINESRSWFFERINKID RPLARLIKKKREKNQIDAINKD KGDITTDPTIEQTITREYYKHL TNKLENLEEMDKFLDTYTLPR NQEEVESLNRPTGSEIVAIHSL PTKSPGPDGFTAQFYQRYKEE L/RNKIPRNPYKGCCEPLQGE QTTAQGNKRGDKQMEHSML MGRKNQYRENGHTAQGNLQIQ CHPHQATNDFLHRIGKNYFKV HMEPKKSPHRQVNPKPKEQSW RHHAT*FQIILQGYSNQNSMVL VPKQRYRSMEQNRALRNNA TQY LQLSDL*QT*EKQAI
17325	47693	A	17430	1	1695	
17326	47694	A	17431	1	3779	MELKTKARELREECRLSRSRN QLEERVSADEEMNEMKREG KFREKRIKRNEQSLQEIWDYVK RPNLRLIGVPESDAENGTKLEN TLQDIIQEDFPNLARQANVQIQE IQRTPQRYSSRRATPKHIVRFT KVENMKQMLRAAREKDFKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSL QRDLDSHTLMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTE
17327	47695	A	17432	1	735	
17328	47696	A	17433	1	2541	
17329	47697	A	17434	1	1461	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
17330	47698	A	17435	2	429	AACAAAMSLVPEKFQHLRLV NTNIDGRRKIAFAITASSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSVNLLSNGLYL/VKG VGRRYAHVVLKADIDLTKRA GELTEDEVERVITIMQNPRQYKI PDWFL
17331	47699	A	17436	1	615	
17332	47700	B	17437	264	556	
17333	47701	A	17438	1	406	FFFFFLQKVGIYLIHKITFQQHRL WVTSAAFLSLSSMAAVGTSSSL SENSGPGHGGKQTF*GP/EGTDI PEGRHHFSAQAFSVVAGRGT AALLHGSHVPQGR/SRIGSRSGG PPSHPDTCSSSHSAGRSCPHSC TG
17334	47702	A	17439	3	3484	
17335	47703	B	17440	42	367	
17336	47704	B	17441	203	382	
17337	47705	A	17442	22	266	YRDLPHLLNSDLIFNMSTSLRE TMILIRTLRVPL/PLHGVIPIS KIQGLVLNALNQVESIFQVSF NLFDPDAFQHVIRA
17338	47706	A	17443	1	1137	
17339	47707	A	17444	1218	1482	QSPWPSSLRGDVSITPNLIFSCL SIGWPFCLV/SFC*PKK*TFQGV GSEVYDVVKHFASCVLCHKQMN KLNLVFRNTYFVALLSTELFEN
17340	47708	A	17445	2	377	
17341	47709	A	17446	1	211	
17342	47710	A	17447	2	732	CSSPSN/TILGVQKLNSQWRLA QDFRLINEAVIPLYPVVPNYTL LSQIPEEAESFTVLDLKDAFFCIP LHSDSQFLFAFEDPTDHNSQLT WMVLPGGFRDSPHLFGQAQ DLVHFSSPGTLVVQYMDLL ATSEASCQATLDLLNFLANQ GCKRVGIALGVLQTQHTGTPQP VAYLSKETDVAAGPLTAILL LAFGPCIFNLLVKLVSSRIDA LQMVLMQEPQMSSTNNFYRGP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
17343	47711	A	17448	1	3003	MPGAQDLQPTMPEPPHPQWAP TWPEPPRRVPPPAPRRVPPLTA QGLSVDQSRGKGFSDDPDRYID VLQGLGQTFDLTWDRVMLLLD QTLAFNEKNAALAAAREFKDT WYLSQVNDRMATAERDKFPSPG QQA VPSMDPHWDLDSYGDW SHKYLCTCVLEGLRRIRKKPMN YSMMSTITQGKEENPAFLEQL WEALRKYIPLSPKSLEGQLIKD KFITQSAADIRGKLQKSLVPE QNLEALLNLATSVFYNRDQ
17344	47712	A	17449	5	624	IQPILAYPHPKTKQLWGFLGIT /GFCPVWIPRCSKIAKSLYTLIKE TQRANTHLVEWEPEAETAFTK LKQALVQAPTLSLPTGENFSLY VTERAGIALGLVTQTRGTTQP VTYLDKGEPMKDCQCIIVQTY ATQDDLLEVPLANPDNLNYTD GSSFVENGIRRAGYAIVSDVTIL ESKPLPPGTSQAELVALTRA LELGKGE
17345	47713	A	17450	636	2628	SNDRTEDDCGKHHPFMSSPPTEP WVCLIEGQEIDFLDGTTFVS LIPCLGRLSSRSVTIQGILGQPVT RYFSHLLSCNWETLLFSHAFV MPESPPTLLGRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNTPIG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYLLSQVPEAEW FTVLDLKD
17346	47714	A	17451	2	568	CSSPSN/TILGVQKLNSQWRLA QDFRLINEAVIPLYPVNPYTL LSQIPEEAESFTVLDLKD AFFCIP LHSDSQFLFAFEDPTDHNSQLT WMVLPQGFRDSPHLFGQAQAQ DLVHFSSPGTLVVQYMDLALL ATSEASCQQATLDLLNFLANQ GCKRVGIALGLVTQTHGTTQP VAYLSKETDVAAK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /possible nucleotide deletion, v=possible nucleotide insertion)
17347	47715	A	17452	254	849	LQPESLEIAGILVQ*MIE*QPKK GTNSIPVSKSP/GVQKPNGQW RQVQDLRLISDAVIPLYPVAVSNP YTLLSQILEEAEWFTVLDLKDA FFCIPLRSDSQFLAFEDPTDHT SQLTWTVTQGFMDTPHLFGQ SLAQDLGHFSPGTLVLQYVDD LLAKQATLDLLNFLANQGY KLSKLKAQLCELLVFSSCARMH
17348	47716	A	17453	1	369	
17349	47717	A	17454	1	1632	
17350	47718	A	17455	636	1837	SNDRTEDDCGKHPFMSSSP(TEP WVCLIEGQEIDFLDTGTTFSV LIPCLGRSSRSVTIQILGQPVT RYFSHLLSCNWETLLFSHAFLV MPESPPTLLGRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPVQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNPILG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLSSQVPEEAEW FTVLDLKDAFFCIPLHSDSQFL AFEDPTDHTSQLMWMVLPQRF RDSPHLFGQAQDLGHFSSPG TLVLQYSEIAKTLTYLIKEMER ANTHLVEWEPEAETAFETLKQ ALVQAPALSLPTQGNFALYVIE RAGIALGVLTQTHRTTPQPVAY
17351	47719	A	17456	2	52	EISFVENGIQAGYATVSDVTVL ESKPLPGTSAQLAELVALTRA FELGKGKRINANTDSKYAYLIL HALAAIWKEREFLISGGTPIKYH KEIMELLHAMQKPKEVAVLHC QSHQKG*EWDTKGRLCHS
17352	47720	A	17457	1625	2505	PGVQKPG/QWRLVQDLRLINEA VIPLYPVVPKPYTLFSQIPKEAE SFTVLDLKDAFFCIPLHSDSQFL FAFEDPTDHTSQLTWTVLPQRF RDSPHLFGQALVQDLGHFSSPG TLVLQFVDDLLAASSEASCQQ ATRDLLNFLANQGYKASKKA QLCLQVQVKYLGILARGTRALS KKRIQPILAYPRPKTLKQLRGFL GITSFCRLQIPGYSKMARPLYTL IKETQRANTHLVEWEPEAETAF KSLKQALVQAPALSLPTRQNF LYVRERAGIALEVLQTHGTTL QPVAKG
17353	47721	A	17458	1	2415	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /possible nucleotide deletion, \possible nucleotide insertion)
17354	47722	A	17459	2646	5167	KNSGHILGTCPGYRYAKGKET GKEIKGPQNPPGYRLCPLQAV GGGEFGPTQVHVPFSLDLKQI RVDLGKFSDDPDRQYPLRPEAH EGLQDILRYLKVQGLVRKCSP CNTRILGVQPKPGQWRLVQDL RFINEAVIPLHSVVPNSYTLLSQI PEEVEWFTVLDKDAFFCIPLH SVCQFLFAFEDPTDIITSQFTWT VLPQGFDRDSPHLFGQILAQDLG HFSSPGTLVIQYVDDLLATSL EASCQATLDLNLNLANQGYK ASKPKAQLCLQQVKYLDLSLA RVTRALSKERIPILACPRPCTL KQLRGFLGITNFCQLWIPGYSE MARPLYTLIKETQRANSHLVER EREAEATFKTLKQALVQALALS LPTGQNFSLYARERAGIALGILT QTHGTTQPVTYLRKLIYSFVE NGMRRAGYAIUSDVTVPESKPL PPGTSTQLAELVVLTALELRK KKRINVTNDSKYAYLILHAHAA IWKEREFLTSGGTPNKYHKEIM ELLHAVQKPKEVAVIPQSHQK GEEK/EAEGNRRADA/EAKIAA RRNLPTIIPMEGPLVWNNPVQE IKPQYSLTKTEWGLSQGHSFLP LGWLTTLEGKAGRATPNPRNV YFPLHLRGLRTGRLPLSQSTRA QEMTLVRPRPSSPPPEKAAEG RGRRCSETKLRRRLFRPLRTP LCATAPLAASVAAVLAAAPAA
17355	47723	B	17460	1	2208	
17356	47724	A	17461	2	168	
17357	47725	A	17462	890	1034	
17358	47726	A	17463	386	619	TFITGDCGLGKTN/HIFDGCGLVLS EVGLVLDCSNQRFKAGPA*LCQ SPFKNIL*ESLPMCMCRQLEKH AHPQGLCHTQVT

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, * = Stop codon, / = possible nucleotide deletion, \ = possible nucleotide insertion)
17359	47727	A	17464	123	2169	DLGHRGSRMASVALEDVAV NFTREEWALLGPCQKNLYKDV MQETIRNLDCVGMKWKDQNI DQYRYPRKNLRCRMLERFVES KDGTCQGETSSQIQDSIVTKNT LPGS/VGPYESRMSGVIMGHSS LNCYIRVGAGHKPHEYHECGE KPDTHKQRGKAFSYHNSFQTH ERLHTGKKPYDCKECKGSFSS GNLQRHMAVQRGDGPYKCKL CGKAFFWPSLLHMHERTHTGE KPYECKQCSKAFSYSSYL RHE RTHTEKPYECKQCSKAPFPYS SYLRHERHTHTGEKPYCKQCS KAFPDSSSLIHERHTHTGEKPYT CKQCGKAFSVSGSLQRIETHHS AEKPYACQCGKAFHHLGSFQ RHMIRHTGNPHKCKICGKGF DCPSSLQSHERTHTGEKPYECK QCGKALSHRSSFRSHMIMHTG DGPHKCKVCGKAFVYPSVFQR HERHTHTAEKPYCKQCGKAYR ISSSLRRHETHTHTGEKPYKCTLG KAFIDFCSPQNHKTHTHTGEKPY ECKECKGKAFSRFRYL SRHKRTH TGEKPYECKTCRKAFGHYDNL KVHERHSGEKPYECKECKGKAF SWLTCFLRHERIHMREKSYECP QCGKAFTHSRFLQGHEKHTGT ENPYECKECKGKAFASLSSLHRH KKTHWKKTHGTGENPYECKECK KAFASLSSLHRHKKTHWKKTH
17360	47728	A	17465	1	1317	
17361	47729	A	17466	1	336	
17362	47730	C	17467	51	353	
17363	47731	A	17468	190	348	YAIHIMDVHTVRSLYYFNCFRY *ACYCCHYLTDIPEITKLSGCSY GGTSLIWG
17364	47732	A	17469	1	1716	
17365	47733	A	17470	1	840	
17366	47734	A	17471	699	1283	LLTARLTWVSARLMSYVLLMC *LFPRLLSCLTPPHCSFSICFV C/FKNVDLKGFEPDVRILLTKYS NSNGSQSPWMEEQIRDAGERV HSAFSLNWGKPLVFEKDRPYSV SVFIGLFLPMAEKTGPLKGNPG GEFLLFLRQIQLVWLPAAAGIMT EHYFPITATQALEINNAISTIMEI FPTVSFASQWITASFSV
17367	47735	A	17472	300	461	
17368	47736	A	17473	1	2451	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *~Stop codon, /~possible nucleotide deletion, ~possible nucleotide insertion)
17369	47737	A	17474	2	3542	
17370	47738	A	17475	1	1156	
17371	47739	A	17476	1	1176	
17372	47740	A	17477	1	257	
17373	47741	A	17478	295	1353	
17374	47742	A	17479	3	1772	
17375	47743	A	17480	2	284	
17376	47744	A	17481	1	141	
17377	47745	A	17482	1	506	PHSPLWKTLCPSSGVC CGFVT LFCNDRFACLFQLTPPPSPAWM TAAASLLASLLPALPPLNLQDA KFVEERRKQLQNYLRTVMNKKV IQMVPEFAASPKKETLIQLMPFF VMGLQVGMVGLFHFVGMMDQ PQPSLTRADESPCDRVLSPCAA HRKQRDCCLSWKAEPE*FLVK* KTLCPSSGVC CGFVTLCNDR FACLFQLTPPPSPAWMTAAASL LASLLPALPPLNLQDAKFVEER RKQLQNYLRTVMNKKVIQMVPE FAASPKKETLIQLMPFFVMGLQ VGMVGLFHFVGMMDQPQPSLT RADESPCDRVLSPCAAHRKQR DCCLSWKAEPE
17378	47746	A	17483	1	741	
17379	47747	A	17484	1	993	
17380	47748	B	17485	277	416	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
17381	47749	A	17486	686	2400	TGMSVDEKPDSPMYVVESTVH CTNILLGLNDQRKKDILCDVTLI VERKEFRAHRAVLAAACEYFW QALVGQTKNDLVVSLPEEVA RGFGPLLQFAYTAKILLRENI REVIRCAEFLRMHNLEDSCFSF LQITLLNSEDGLFVCRKDAAC QRPHEDCENSAGEEEDDEETM DSETAKMACPRDQMLPEPISFE AAAIPVAEKEEALLPEPDVPTD TKESSEKDALTYPRYKQYL ACTKNVYNASSHSTSGFASTFR EDNSSNSLKPGLARGQIKSEPPS EENEEESITLCLSGDEPDAKDR AGDVEMDRKQSPAPTPTAPA GLCLERSRS/GNYGQPH/VGQK EVSNFTMG/PLRGPGLALCK QEGELDRRSVIFSSACDQVSTS VHSYSGGARFLATEHQEPGLM GDGMYNQVRPQIKCEQSYGTN SSDESGFSFSEADSESCPVQDRG QETGSTDLRLSTKLQSCSGPM FKGPTATVAATESWGTVLQNIP LGCAGTGEEVYTNPPPRGRAA LVPRSPLTVYSSSLPEHQTSLKQ CAQAGPGVCLLVHNHWQLLEG
17382	47750	A	17487	1	1089	
17383	47751	C	17488	295	348	
17384	47752	A	17489	1	711	
17385	47753	A	17490	1	1248	
17386	47754	A	17491	135	259	
17387	47755	A	17492	434	506	
17388	47756	A	17493	3	227	
17389	47757	C	17494	3	236	
17390	47758	C	17495	25	153	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 9,540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
17391	47759	A	17496	1	1557	MASPEAVASQDNDGFSQKPPPT PLFASRSVNRLKSQRTPRGEVE SVTDGKTDGSGWRMTVDYCKL NQVVTPIAAAVPDVVSLLLEQIN TSPDITLVHYIDDIMLNGSSEQE VTNTLDLLVRHLCAWGWEINPT KIQGSSTSVKFLGVQWCGDCR DVPSKVKDKLLHAPPTTKKEA QHLTGLFGFRKYIPYLVLLC PIYQVTRKAAAFQWRPEQKAL QQVQAAMQAALPLGPYDPAGP MVLEIAVADTEAVVGH/WHSA SFPSPCHCPMGP*TKWP*WQG WRLCMGSATWTSTHGG*PGYG HQ*VPNLPAEETNTEPAI*HHS/ SRRSASYLVAG*LYWTSICMER AEHLLWIWVCLSCMQCFQCD YHPWTHGMPYPPLWYSTQLCL *PRHSLYH*RSVAVGSCSWNSL VLPCSPSS*SSRVDRIVERPFEIT TTMPTSQESRVQESRGSGSGGT THHHHP*STSNIFASCFYGITFC WSRGLSSRRGRNAATRRQNNISIK L*VKIATWTLWAPPTSKL
17392	47760	A	17497	2	1120	PSKVKEKLLHAPPTIKKEAQR LVGQLGFWRQHPIHLGALLWLI YQATQKAASFEGPEQEKALQ QQVQAVQAALPLGPYDPADPM VLEVSADRDVWVSLWQAPIG ESQQRPLGFWSKALPSSTDNYS/ CFRCAIHY*FMGCCQ*FGWIVRD LEEA*LENW*QRNLGKRYVDG PL*VVKNNWKDICIPECSPPTGDL SRGGF*SSG*DDPFCGHHSASF PSHPCCRPMGP*TKWPWWQE* RLCMDSATWTSTHQS*PDYSH C*VPNLPAEETNTETSIWHHFS G*SASYLLAG*LH*TSIMEKAE VSPHWNKIISLWIWVCLSSMQC FCQDYHPWTHSMYPPLSWYST QHCLSLQRERHSLYR*RSAAVVG ACS
17393	47761	A	17498	1	1908	
17394	47762	A	17499	1	915	
17395	47763	A	17500	2	670	
17396	47764	A	17501	1	1332	
17397	47765	A	17503	151	674	
17398	47766	A	17504	1	825	
17399	47767	A	17505	134	447	
17400	47768	A	17506	98	778	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17401	47769	A	17507	1	830	MHCFFIFSAAWFCLWSISLHLV ERPDMAVLLFPFGLRLGLMLQ CPRGYWPVLLGAEWLLIYWLT QAVGLTHFPLLMIGSLLTLPLV ALISRYRHQRDWRLLLLQGAA LTAAALLQSLPWL RHGKESWN ALLLTGTG/EPDAGPDMSGVLA LSRQ*HLAAARSVTGFSANQLA RATSGLVLAACVYQSLAPVGIA GRTVALYAILSGAADYRAGLA LWLARGADCDVDERHRADRH QSWRDLPLWTYCSGDGCDSRHGA QGQKARAPPKHDQFPFAIFRG
17402	47770	A	17508	2252	2772	RSKTTAFTPLRVRTSAHARPAG PAPIIATFLPVCFTPDISGRQPISN ALSLI*RSMLPMVTAPNSSFRV QEPS/SQTVLRADSSANFRQGV GLVRQFRFRKNTPLVGELQPVR DVVVYRAFFLAVVVAARQAA VSLRFGLAFGKRLVFNKLNFA DLQRFLWRINALQVDKLITF
17403	47771	A	17509	539	1077	
17404	47772	C	17510	192	396	
17405	47773	C	17511	10	294	
17406	47774	A	17512	2	379	KRPGSGITEATSSRRQRPTRLQ GQLPGQEKRVLKATEGIANPS WGWGGAVSPLRASLTSLRHKI NNHYNTENWKLPIKDSVHLIPSP QAPSMFPPLANPPWAPHREK MWNPQIQGTNCIWVCGP
17407	47775	A	17513	291	590	
17408	47776	A	17514	187	589	VLSFLIHRWEGDKDSSLGPNFS QTPQPSRRFICAFPWENPS*EPS YPSISDPGFLILLPSKGDVWIHL GPISFKKPLYS*SSFLVIFYVPTP SFLFLGYKFPLAHAVFRVEPTLS LLIQNSHCHGCYTYPDGPE
17409	47777	A	17515	1509	1748	IGVVREGIPVLCFLFSKGMLPVF AHSV**YWLWVCHR*LLLF*DTs HQYLIY*EFLA*SVVDFCQRPF HLVLDFFWLVS
17410	47778	A	17516	152	568	CQLELSCMKCPTFPVGRSLPVG CTRSGTQLRWHSVPWQSWCTV LGESLLSGLVVLFRASRPE**NP LKLLPQLPLPPDALSGDGSFV CKHPTGAVTFPSGMPLGSMTIF KILILPIHEHGMFFSLSVSSFVSL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, /-possible nucleotide insertion)
17411	47779	A	17517	152	568	CQLELSCMKCPSTPVGRSLPVG CTRSQTQLRWHSVPWQSWCTV LGESLLSGLVVLFRASRPE**NP LKLLPQLPLPPDALSQDGSFV CKHPTGAVTFPSGMPGLSMTIF KILILPIHEHGMFFSLSVSSFVSL
17412	47780	A	17518	152	479	CQLELSCMKCPSTPVGRSLPVG CTRSQTQLRWHSVPWQSWCTV LGESLLSGLVVLFRASRPE**NP LKLLPQLPLPPDALSQDGSFV CKHPTGAVTFPSGCPHTLQA
17413	47781	A	17519	1	474	
17414	47782	A	17520	1326	1712	FLYVIKALGKKQLQFGQQLIPS IELLDYLINPAGSGCVSLWKLNK PQCYLIHFSGLTLSWKVHTIL LEGHYEFLEYAADR*PICLFSW KERQLVSFLDYSLHLLGFSFYV VFFFLLYLLVRLCWDL
17415	47783	A	17521	18	236	
17416	47784	A	17522	281	1005	TGWSPLQLSKATVARLPLWIPP LWAGHLGELWLASGEYPSGLK LPEEGTGSNLRCSAASAGDTQA NRVWSGPAANFSRPAEAPAF HALRGPSVHCSPLCVHEFSSFS LISENMQYLVFCGVRFLRMVI SSIHILCLVPKRTRVLGRSLSLC FRFLRGPKERITIPHSSAPPLGH VIAIPL*SFMKPSPEADAPMTG SFLKSPSEADTGATLPVQSVVPI PLSILPILEVGGVLF
17417	47785	A	17523	1	1524	
17418	47786	A	17524	881	1108	SRKMGAPNA**SAWSWSREGL AAP*SMFSSLSADSSADCKLPE GKVQPASSTGLTARASKDLVFC CCFSISARAS
17419	47787	C	17525	1	867	
17420	47788	A	17526	203	514	SSSTARPSQTSSAEESPTSWYRG DNPSKPMDDLAVGVFGAIVGA ASVLGNAPLDGIETGCCGWSST NAEHTGLWLQILRKEGLKDL*N GTVPRLGRTWASPWM

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /possible nucleotide deletion, /possible nucleotide insertion)
17421	47789	A	17527	1	1578	MAKKEQLLSAAPSKTNAEGQEI PSGVYTRALGFKHKTGQPFQ TPSPQEFILYTNDTWNASKTE PFTPLERGLKPGSQESSGWHLV GTPLGRSFQRKEQAAIFAVLQP PLVIPRQTGSGVDLQQTPTDLQ KRVLTVRRKTNININCKDDHA KTTSGHQQQRPKVDKSTKMR KNQCKKATNSKNQNVSSPPKD HNSSTAKEQNWMEFDFKLTE VGFRSSQFDQVEERISDIEDKLN EIKHEDKIREKRMKKKEQSLQE IWEYVKRPNLRLIGVPESDGEN GTKLENTLQDTIQENFPNLARQ ANIQIEIQRTQRYSSRRATPR HII/E*IHQ*NEGKTIVKGSQRE K*GQEI PSGVYTRALGFKHKT GQPFQTPSPQEFILYTNDTW NASKTEPFTPLERGLKPGSQESS GWHLVGTPLGRSFQRKEQAAIF AVLQPPPLVIPRQTGSGVDLQQT PTDLQKRVLTVRRKTNININCK KDDHAKTTSGHQQQRPKVDK STKMRKNQCKKATNSKNQNVSS SPPKDHNSTAKEQNWMEFDFKL TEVGFRSSQFDQVEERISDIEDK LN EIKHEDKIREKRMKKKEQSLQE IWEYVKRPNLRLIGVPESDGEN SDGENTLQDTIQENFPNLARQ ANIQIEIQRTQRYSSRRATPR RATPRHIGRFTK VEMKEKRLR AVREKSRVTHKGKLRITADLS
17422	47790	A	17528	738	1323	ATGGHSNQRRS*KLSKKFR MYN*NNQYREV LKAGDGAEN QGSRTTETLCM*RMQRSLQFD SDLVRHQKHSGEKPYECCEC GKAFRGSSSELIRHRIHTGEKPY ECGEYSYECIACGAFGRSST LIENQRIHTGEKPYECNECGKSF NQSSALTQHQRHTGEKPYECS EKRKTFHRSGMLMQHQRTHTR
17423	47791	A	17529	1	656	MAGKPEYDKTISTIVLNALNA LGVSAAESGRNDLVVKTVEGD RKVSGSAYRETKDRGFHHGTL LLNADLSRLANYLNPDKKKLA AKGITSVRSRVTNLTLLPGITH EQVCEAITEAFFAHYGERVEAE IISPNKTPDLNFAETFAQSSW EWNFGQAPAFSHLLDERFTWG GVELHFDV/GKRPYHPRPGVYR QPQPRAAGSPRRRTTARLPFLSL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17424	47792	A	17530	1046	1401	LLDIRMLCHGKGVIIHVLRLQF LLGRPAPHRLHAALQLPLGLSLH GTLALGLWLQLRQLLLQLQPF GISGCGSGCDPEQDCV/DCGRG CWPRKCPQGSAPSRSRGAPHR PRPQQAAGRG
17425	47793	A	17531	112	1170	YPPFHLDISTDTVCVCTKFLCC VFQLHQVIYVLL*TGYSILFDAD DLWMGFLRGHPFC*CYCLFVFS FPSNSQAPLLQVCWSLLEVHSR PCSPGYHQRRQLNSKSDCCLLLP LEALSQSGTHQMPAGALLYEM SVNPCWEEHQTDLFTHESTFI RSKTQKKVPDKLLDSSVTPLF KITENIGCVMTGMTADSRSQVQ RAREYEAANWKYKYGYEIPVD MLCKRIADISQVYTRNAEMRPL GCCMLIGIDEEQGPQVCKCDP AGYYCGCKATAVGVKQTESTS FLEKKVKKKFDWTFEQTLETAI TCLSTVLSDFKPSEIEVGVTTV ENPKFRILTEAIDAHLVALAER
17426	47794	A	17532	2244	2432	DGQQLIALHRLALRELQQAAPH AGIAPAGENPV*WWFRNRQNP LIALRSLPAFQSGNLSQCLH
17427	47795	A	17533	251	546	SSISDILSSA*SIRLLILVYAS*SS RAVFFSTIRSFIFSKLVILVSPSC NLLSRFLASFHWVVRTCSFSSKEF VIITHLLPTSVNSSYSLSFSFVHF G
17428	47796	A	17534	597	1092	FTNQKESRTRWIHSRILPEVQG GTGTIPSETIPINRKRGNPP*LIL* GQRHSDTKAG/RDTTKKENFRP ISLMNIDAKILNKILANRIQQHI KKLIHHDQVGFIPGMQGWFNIR K/CNKCNPAYKQSQRQK/HT*L SQ*MQKKPLTKFNNPSC*KLSIN *VLVGRISK
17429	47797	A	17535	1	2153	
17430	47798	A	17536	2164	2427	
17431	47799	A	17537	1	322	GPRWGRVVRHAPDPVRIPSSGP LLPPRFYPRYVLP/PPSASTSRPC QRTSASGRCPMPH/DTVKATM PIWV/DPPVPDHYEGEAHQGIL VTHPHHQRCPAGHRHRVVF
17432	47800	A	17538	1	627	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17433	47801	A	17539	583	1145	GNGRTVDTQVCQAPITQSLSER PADPNPGEQDAEAGPASRRDT EAERLRFQFYHVASGPIL VGQLWTLCRQWLRPEARKEQ MLEVLVLEQFLGALPSKMRTW VQSQGPSCREAAASLVEDLTQ MCQQEGLAAHPSHDTAIRGIPR LAASWETASAMEATADARQKR THTEKEAWLLEAPHELA
17434	47802	A	17540	1	1301	
17435	47803	A	17541	1	1232	
17436	47804	A	17542	1	549	MNTANVEKPYVQKYQTAFVLV MKHRQCQLASHLVQNYRS/IQL WAWELQIDPGTTCPSFNTITQG SKKPYPDFVARLRDAAQNSITD ENARKVIVELMAYGNANPECC SATKPLKGVPTGSDVISDQKA VGVQAAKRRNRDTGLGRSAR KSGKGVTRMLPKHASMILDGG GPATSPSCCRFL
17437	47805	A	17543	146	510	SPYWNKGKSPGWLAES/FKRPV FRQGAKEPYPDFAAASLQDAAQ KSITNENARKVIVELMAYENAN PECQSAIKPLKGVVPVGSVDVISR GFQGGQPPLSQVLQGMGQLPQ YSNCPRPQAAVQQ
17438	47806	A	17544	2	828	
17439	47807	A	17545	1	420	
17440	47808	A	17546	1	1947	
17441	47809	A	17547	1	399	PLKVNIYPDSKYAFHILHHHER GFLTTOGSSIHNASLIKTLKAA LLPKEARVIHCKGHQRASDPIA QDNAHTDKIAKKAASIPTYTPH FQFFSSSATPTYSPAETSTYQS LPTQGKWFLDKETYFLPASQ
17442	47810	A	17548	1	2382	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /possible nucleotide deletion, \=possible nucleotide insertion)
17443	47811	A	17549	1	2194	MAPEQGRVSIQLTFIEYHGYSI FVVKGDLPCDEADQLLQMIRV QQMHRPKLIGEELAQLKQRV HKTDLERVLEANDGSGMLDED EEDLQRAIALSRQEIDMEDEEA DLRRAIQLSMQSSRNISQDMT QTSGTNL.TSEELRKRREAYFEK QQQKQQQQQQQQQGGDLGGQ SSHPCERPATSSGALGSDLALLL TQSLFGSLFTWTRVTFGAEDPG QEDSFRRRVPCPCPHSVRRSTY DLGSSDQPAQGTSHFEQIGLLL TRLSPVILPQPPVPHPIILSPPP HTVSGQLFSLVTSPLPAQQFLL KEVAGAEGLAKVIPTCPVPLLG QDILTKLSASLIIPGLQPHLIATL LPNPKPPSPPLPVSPNLPQVW DTSPLATDQTPITIPKPNHP YLAQCHYSIPQLALRGLKPVIT RLQHGLLKPINSSYNIPLPVQ KPDKSYRLPQDLDLINQIVLPIH PVASPHIIPDTPDPHDCISLIHL AFTPEPHTSFFPIPHPDHTWFID GSSTWPNRHSPAKVGVAIVVSS TSILEATALPSTTSQQAELIALT RALALAKGLHVNIYTDKSYAF HILHHNAVIWAERGFLSTQRSSI IIASLIKTLKKAALLPKEAGVIH CKGHQKASDPPIAQGNAYADKS DNGLAFTSQI//HKQFLRLVFS GTFIPLTVLNLQERTGQYFYLLP FTELEPVLEKLQGTVHLNFYMD
17444	47812	A	17550	1	355	
17445	47813	C	17551	99	335	
17446	47814	A	17552	21	447	LGPLPFLSPCLLHCQGRKLCG HHEEARRRKNVSIPIKEAGIHC KGHQK/A/SDPIAQGNAYADKT KFLDLAFLPPLRLSFTCQITQAVS QALGIQWNHLTLTILNLQKRIR ACPDATGYSPFELLYGCSFLL GPSLIPDTSTPT
17447	47815	A	17553	119	239	TQKGQRAALFLICILSPSPPLPTL GKNFKN*IPALKPHNRI
17448	47816	A	17554	1	798	
17449	47817	B	17555	460	1059	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17450	47818	A	17556	3	1476	IP*TCPVPLLQGDILTKLSASLIIP GLQPHLIATLLPNPKPPSPPLV SPNLNPQVWDTSTPSLATDQTP ITIPLKPNHPYLAQCHYSIPQLA LRGLKPVITRLQLHGLLPINSS YNSPILPVQKPKSYRLPQDL LINQIVLPIHPVASPHIIPDTTDP HDCISLIHLAFTPFHTSFFPIPH DHTWFDGSSWPNRHSPAKV GYAIVVSSTILEATALPPSTTS QQAELIALTRALALAKGLHVNI YTDSKYAFHILHNAVIVWAER GFLSTQRSSIIASLIKTLLKAAL LPKEAGVIHCKGHQK\ASDP QDNAYADKLAKKAASVPTSVP HGISQAPPLPTHQARYWQIDF THMPVRVKLLYLLVWVDTFTG WVEAFPTGSKKATAVISLLSDI IPQFSLPTSIHSDSRLAFISQITQA VSQALGIQWNLHISYRPQSSGK VEQTNGLLKTHLTKLSLQLKK DWTVLLPLALLRIRACP
17451	47819	A	17557	24	594	VGSGDLWPWEGNPLSSCSLLHEK DPPTSGPQTDQPKHLTNFKS GCSSPGPARSQFFLSLRSSTL*SF YHLPSSHLVCLTVSFRD*PSPTC PAIDS*KGG/CELKA/RVKEHFC HDLPASSMQSNYPVHDSGHILT TGFSLFKPTLNIEYSTGHAPYHV RSACFPFAFCHDCQFPEASPEAE AAAILSVQPAEP
17452	47820	A	17558	1	1152	
17453	47821	C	17559	301	462	
17454	47822	A	17560	1	423	
17455	47823	A	17561	421	856	KLINLFSNFCYSRQFLSFSSTL YFVWVFCYNRCCFSK*RMIVHI TNRDINCQIAYARIEGDMIVCA AYAHELPKYGVKVGLTNYAAT YCTGLLLAHLRLNRFQMDKIC YLDAGLARTTTGNKVFGDLDG GLSIPQSTK*FPGYD

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
17456	47824	A	17562	3	1082	GPLCIALALQEFGTRRRWACRS LSSSGRRSLFRRMGSVKAVKNK AYFKRYQVKFRRRREGKTDDYY ARKRLVIQDKNKYNTPKYRMI VRVTNRDINCQMLYA/RRIEGD MIVCAAYCTPNLPKIWV*RVGL TNYAAAAYCTGLLLAARRLLP*/ RFGMDKIYEGQV\ELTGDEYNV ESIDGQPGCLPPAYL\ DAGPCSE PTHWPLKFFGAPEGKL WMGGL SIPSQYPNRFPGYDSEKQRNFN AEVHRKAHSWGQNCRCFTWR YFMEED\EDAYKK'QFS'QYIK\ NSVT\PDMMEEEMYKKAHAAI RENPVLWRRPK\KEV\KKRW NRPKMS\LAQ\KKDRVAQKKAS FLQSSRSGLLES\TPAIFP
17457	47825	A	17563	2	4967	
17458	47826	A	17564	56	284	RQTRRAAGIVRGDCPASSPTNC DLGQC/NSTS/LEPRFVQTVHLL CPWT/GGSSPLLAARGLSPVSL GPLKPMVSCAGR
17459	47827	A	17565	1	3525	
17460	47828	B	17566	35	3691	
17461	47829	B	17567	80	3787	
17462	47830	A	17568	225	507	
17463	47831	A	17569	2	2621	
17464	47832	A	17570	14	1658	
17465	47833	A	17571	1	3654	
17466	47834	B	17572	1	3570	
17467	47835	A	17573	1	3663	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
17468	47836	A	17574	485	2347	TEPKTKTT*LSQ*MQKRPLTKF NNTSC*KLSIN/IVLEVLAIRIQ EKEIKGQLGKEEVKVSFLADD MIVYLENPTVSAQNL.LKLIGNF SKVSGYKINVQKSQAFLYTNRR QTERQIMSELPFTIASKRJYLG QLTRDVKDLFKENNKPLLKEV KEDTNEWKNIPCSWVGRINIVK MAILPKVIYRFNAIPIKLPMTFF TELEKTTLKFIWNQKRACIAKSI FSQKNKAGGITLPDFKLYYKAT VTKTAWYQWYQNRDIAQWNRT EPSEIMLHIYNYLIFDKPEKNKQ WGKDSL FNKWCWENWLAICR KVKLDPFLTPYTKMNSRWIKD LNVRPKTIKLEENLGI TIQDIG VGKDFMSKTPKAMATKAKIDK WDLIKLKSFACTAKETTIRVNRQ PTTWEKIFATYSSDKGLISRIYN ELKQIYKKKTNNPIKKWAKDV NRHFSKEDIYAAKHKMKCSS SLAIREMQIKTMMRYHLTPVRM AIKKSGNNRKIQ/GGIWCDRI L* R*TTCTCRVAKEIQSL*RRJ/WKRL QRTL SIPVLDAV*PPMF*ASVID TMTI*CFEARDTCFTLTLESFWD MHRCLAASKGIGLLC*PLIWH MSLMGVKSPPFVFSCLWTSAV
17469	47837	B	17575	1	3354	
17470	47838	A	17576	1	3297	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17471	47839	A	17577	1	2563	MKAIEIKMFFETNENKDDTTNQNLWDAFKAAEEVESLNRPTTGAEIGAIHNSLPTKKSPGPDGFTAEFYQRYKEELVPFLLKLQFSIEKEEILPNSFYEAASILPKPGRDTTKKENFRPISLMNIDAKILNKILANRIQQHIKKLIHHDQVGFFPGMQGWFNIRKSINVIQHINRAKDKNHMIISIDAEKAFDKIQPFMLKTLNKLIGDGYFKIIRAIYDKPTANIILNGQKLEAFPLKTGTTRQGCPLSPLLFNILLEVLARAIRQEKEIKGIQLGKEEVKLSLFADDMMIVYLENPIVSAQNLLKLISNFSKVSQYKINVQKSQAFLYTSNRQTESQIMSELPFTIASKRIKYLGIQLTRDVKDLFKENYKPLLKEIKEDTNKWKNIPCSWVGRINIVKMAILPKVIYRFNAIPIKLPMTFFTELEKTTLKFIWNQKRAHITKSILSQKNKAGGITLPDFKLYKATVTKTAWCYQNRDIDQWNRTEPSEITPHYTYNYLIFDKPEKNKQWGKDSLFNKWCWENWLAIWRKCLKDPFLTPYTKINSRWIKDLNVRPKTIKTEENLGITIQDIGMGKDFMSRTPKAMATKAKIDKWDLIKLSFCTAKETTIRVNRQPTTWEEKIFATYSSDKGLISRIYNELKQIYKKKTNNPIKKWEKDMNRHFSKEDIYAACKHMKKCSSLAIREMQIKTTMRYHLTPVRMAILKKSGNN
17472	47840	A	17578	1	3514	MELKTKARELREECRSLRSRCDQLEERVSAEMEDEMNMKREGKFREKRIRNEQSLQEIWDYVKRPNLRLLIGVPESDVENGTKLENTLQDIIQENFPNLARQANIQIEIQRTPQRYSLRRATPRHIIVRFTKVEMKEKMLRAAREKDRSTRQVKNKDTQELNSALHQADLIDIYRTLHPKSTEYTFFSAPHHTYSKTDHIVGSKALLSKCKRTEIITNYLSDHSAIKLELRILKLTCSRSTTWKLNNLLNDYW
17473	47841	A	17579	1	3693	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17474	47842	A	17580	1577	3354	TEPKTKTT*LSQ*MQRKPLTKF NNLSC*KLSIN/IVLEVLAIRIQ EKEIKGIQLGKEEVKLSLFDADD MIVYLENPVSAQNLLKLSNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNI PCSWVGRINIVK MAILPKVIYRFNAIPIKLPMTFF TELGKTALKFIWNQKRARITKSI LSQKNKAGGITLPDFQLYCKAT VTKTAWFPSGDVGLADFSPSH TLKTQFFSCLAEFAAASCFFQR MNGFGMAAMTTTTYSTGAESPL PSCSIDQGGDTKLHRRASPGRT FPAAAGIPAAAA PDGPPLSLH KLWFPVELGGRALPRAESHGE VAALGVMVVAQGGKNQGEAA RSTPWLRPTSHLPCSSSSA WW TEQTDHPLLLCLGIYLLNA LSNLSMVALVRSDGALRSPMY YFLGHLSLV DVCFTT VTPRLL AGLLHPGQAISFQACFAEMYFF VALGITESYLPAAMSYDRATAA CRPLRYGALVTPWALRLAARY DRLASVVYAVITPTLNPFINSLR NKEVKGALKRGLRWRAAPQE
17475	47843	A	17581	1	3042	
17476	47844	B	17582	1	3384	
17477	47845	B	17583	1	3264	
17478	47846	A	17584	1	3780	
17479	47847	A	17585	1	3165	
17480	47848	A	17586	1	3894	
17481	47849	A	17587	1	3345	
17482	47850	A	17588	523	3981	
17483	47851	A	17589	1	3429	
17484	47852	A	17590	1	3921	
17485	47853	B	17591	1	4797	
17486	47854	A	17592	1	6499	MVKGSIQEEELTILNIYAPNTG APRFKQVLSDLQRDLDSHTLI MEDFNTPLSTLDRSTRQKVNK NTQELNSALHQADLIDYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEITINYLSDHS AIKLELRINKLTQSRSTTWKLN NLLLNDYVWHNEMKAEIKMFF ETNENKDDTTYQNLWDFAKAVC RGKFIALNAYKRKQERSKIDTL TSQLEKEKQEQTHSKASRRQE ITKIRAEKIEIETQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
17487	47855	A	17593	1359	2520	IQCHPHQATNYFLHRJGKNYFK LHMEPNKSLHSQDNPKQKGTK LEV/CTLPDFKLYYKATVTKTA LYLYQ/NQRCSMEQNRALRN NATYIYNLYLFDKPEKNKQWG KDTLFNKWCWENWLAICRKLK LDPFLTPYTKINSRWIKDLNVRP KTIKLEENLGTIQDIGMGKD FMSKTPKATATKAKIDKWDLIQ LKSFCTAKETTIRVNRQPTWE KIFGIYSSDKGLISRIYNELQQIY K K K T N N P I K K W K D M N R Y F S K EDIYAAKRHMKKCSSSLAIREM QIKTTMRYYLTPLRMAIHKFG NNRQETVREMACLLSGTMDFR HRACFVLSKPDFSTRWPGADA QRPPVLVVVALDSSLFPQASG QRPPSLEDVDGGAGALVAPC
17488	47856	A	17594	1	1227	
17489	47857	A	17595	2	2774	NLCSLIPLREVTIVEKADSSSVL PSPLSISTRNRMTFLFANLKD RD FLVQRISDFLQQTTSKIY SKFE AGSYNSSDDEVYSRPSSLVSSSP QRSTSSDADGERQFNLNGNSVP TATQTLMTMYRRSPSEEFNPKL AKEFLKEQAWKIHFAEYGGGIC MYRTEKTRELVLKGIPESMRGE LWLLLSGAINEKATHPGYYEDL VEKSMGKYNLA TEEIERDLHRS LPEHPAFQNE MGIAALRRVLTA YA FRNPN I
17490	47858	A	17596	1	3472	
17491	47859	A	17597	1	900	
17492	47860	A	17598	1	1290	
17493	47861	A	17599	153	3834	
17494	47862	A	17600	299	1184	
17495	47863	A	17601	1	729	
17496	47864	A	17602	1	2232	
17497	47865	A	17603	36	224	TQWGPSVCWC LIPWPSFPDQ*P GF*AVLLPWRCQGFWPLLLAC APAGPATAAEPAVSSPAEP
17498	47866	A	17604	1	624	
17499	47867	A	17605	1	578	RDLDLFSLPQDITL/VHYVDGIM LIGSSEQEVASTDLLVRHLHA RGWEINLTQIGLATSVKFLGV QWYGACRDIPSKVKDKLLHLA PPTTKKEAQHLAASFEGWPEQ KGLQQVQVAVQAALPLGLYDP ADPMVLEVSADRDVAVWSLW QAPIGESQWRPLGFQNKALPSA DNYSPFERQLLACYWALVETE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17500	47868	A	17606	1	282	PIYRVSRRKAANFEWSPEQEKAL QQVQAAVQAAWPLGPYDPAD PMVLEVSVADRDADWSCWQA SI/GHKVGHAAQQHSIIKWKWYI RDWARADPEGT
17501	47869	A	17607	1	338	SIYLVTKAA/SESWGPEQEKA LQEVQAAAVQAAALILEPYDPAGP VVLEVSLADRDADVWSLWQAPI GESQQRPLGFWSKALPSSA/DH KACHAQQHSIIKWKWYIHDRA RAGPEGT
17502	47870	A	17608	1	757	
17503	47871	A	17609	1	1317	
17504	47872	A	17610	2	24	LCQRLLAEPNEKPGSLGNVM AVARIEIGICEYYHEKTTEKALD SHGVLGASTIKGVRSFQRNLEL KLPATERATANAIELLTVLDQA YENFAPQILPSTGSPSTQETAQF KANQNKPLVRGKGPHEAIRYI SAAHREWKPAITLSAIRSFCST WLVFTSKNFPKLVTHGSGTIAG NGQSSDETQVQGAAWKSDSRG TKRQIPTWILAEGNNAQAQLDI PGPTIPAPNCSLKVPQSWSTTPS MPSSLGKAYWLLACYWALVET E/RLAMGHQVTM/KPELPVMN WVLSDPSSHKVGGAQQHSINK WKWYIRNRRARAGEGTS*LPAP LIG
17505	47873	A	17611	1	1815	
17506	47874	A	17612	875	1916	PGKQGLEWTPRKLLQQTCKRGA GQLEEKLANKRQ*HQH*QKG*P /PQKLNAKDIIINSSPTREQNWTE NEFDELTEVGFRRWVITNSSEL KEHVLTKCKEAKNFDKRLLEL LIQITSLEKNISDLMELKNTARE/ LLEAYTSINSQIDQAEMDR*PD* *RRKERRIK*HNKK**RGYHN*S /QEIQTITIREYYKHLYANKLENL EEMDKFLDTYTLPRLNQEEVEP I.NRPITSSEIEAVINSLPNQKSPG QTNSQLTSTRDAEAKFNKIQHP FMLKTLNKLIDIGTYLKITRAI/ S*QTHSQCHTEWAKAGSIPFEN RHKTRMPSLTTPIQYSGINSQG GNQEFWKLHLVEREW
17507	47875	B	17613	1	1158	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
17508	47876	A	17614	851	1344	HLKPSPSPLYPWKNCLPRNP SLVPRQTGSGVDIWTAAADLQQ RGLLEGKLTNRKE*YQHQQKR CPHQNP1*RSPTSNTKARE/QNW TENEFDELTEVGFRRWITNSSQ LKEHLLTQCKEAKNLEKRL EELLTRITSLLEKNNDPME LKNATAEPHEAYTSINS
17509	47877	B	17615	99	716	
17510	47878	A	17616	1	588	
17511	47879	A	17617	1	1140	
17512	47880	A	17618	1	774	
17513	47881	A	17619	3	527	AENSKKQNASPPND/RNSS/EA QNWTENEFDELTEVGFRRWIV TNSSKLKEHVL TQCKEAKNLD KRLQELLTRITSLLEKNNDLMEL KNTARELREAFSTFCVNCEAVS LITSLREDSHWLEDKSGHRM/R RHQE*KCEYFHPPHGLQFYQL PESDSDHSDPLWPHGGSSV
17514	47882	A	17620	1	1383	
17515	47883	A	17621	1	990	
17516	47884	B	17622	337	1515	
17517	47885	A	17623	153	474	QTKSNNVNKKQDVHTKTPSEG HQHQRPKIDHNSLPAREQNWIE NEFDELTEVGFRRWITNSSEL KEHVL TQCKEAKNLEKRLQEL LTRITSLLEKNNDLMELKNTA
17518	47886	A	17624	1	771	MPFSDTERVITGPSTKVHSYPG GLQALLQLRLHSLMWRWSAA VAIGVHVRCDLLAVHPVLWAY PQWQEPKMLTLIPGRITATII GLYQHEGIRAYCDSRVYIKPS SGIESVLTSPQDHNSSPAREQ NWTENEFDELTEVGFKKWWIT NSFELKEHVL TQWKEAKNLEK RLANLLTRITSLLEKNNDLMELK NTAQELHEAYASINSRINQSEER ISEIEDQLTEIEQVDKIREKRIK/R RNEQSL*EIWDYV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17519	47887	A	17625	53	814	PGKQGLEWTPRKLQQTCKRGA GQLEELKANRQK*HQH*QKG*P /PQKLNKADHNSSPTREQNWTE NEFDELTEVGFRRWVITNSSEL KEHVL TQCKEAKNFDKRLEEL LIQITSLKKNISDLMELKNTARE/ LLEAYTSINSQIDQAEEMDR*PD* *RRKERRIK*HNKK**RKEQAAI FAVLQPPVLITRQTGSGVDPQK TPADLQKRCRTVRRKTSQQKA VASTLTKRITITQKLNKADHNSS PTREQNCTENEFDELTEVGFRR WVITNSSELKEHVL TQCKEAKN FDKRLEELLIQITSLKKNISDLM ELKNTARERWKHTQVSIKSIK QKWTASQTNKEEKREESNSTIK NDKGDITDPTEIQTITREYYKH LYANKLENLEEMDKFLDTYTL PRLNQEEVEPLNRPITSIEIAVI NSLPNQKSPGQTNSQLTSTR
17520	47888	A	17626	1	1566	
17521	47889	B	17627	1	1005	
17522	47890	A	17628	1	2172	
17523	47891	A	17629	1	504	
17524	47892	A	17630	2	1601	
17525	47893	C	17631	132	278	
17526	47894	A	17632	380	828	EVLVRMIELNAVITYPYPKDTGC QPLV*HAAASLNSPEVMGATQ LKPLRPCKKCPKILEGGH*EW MEARHRNLGTLHGLPCSRTHF* TTTAQGEWLCCCHCGEHPQG GRHPCIC*HCYSCHTLAPPVQW TPNVAEPDNKAGA QYKSPRV
17527	47895	A	17633	1	963	
17528	47896	A	17634	2	368	EFSDPIHHTFDHMRWTKHENE AGWLLSSVDKVMKENDELGD SISQLQKQILSLKSAKIALSESLI SCRERTEIVEK*I*ALIMLVADL Q*KVHAQPHHAQPRQVSTVKV RALIVLQEVTD
17529	47897	A	17635	1	1881	
17530	47898	A	17636	755	939	ARKNTRIISYSGVCKKNVETWR* MFCTLLGRQQGCATVGKGDRC GPLRYYSWVRKGDVQLQGD
17531	47899	A	17637	367	423	
17532	47900	A	17638	3	1925	
17533	47901	A	17639	1	1137	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
17534	47902	A	17640	153	474	QTKSNVNIKKQDVHTKTPSEG HQHQRPKIDHNSLPAREQNWIE NEFDELTEVGFRRWVITNSSEL KEHVLQTCKEAKNLEKRLQEL LTRITSLEKNINDLMELKNTA
17535	47903	A	17641	1	1068	
17536	47904	B	17642	1	717	
17537	47905	A	17643	585	2302	VLQLLRQERLELFVPPGELVVS LASGVKLQTFAGGKAWLLQTH SDLGEQKLTTHIPISLSKVIFWC NWPEAKTAAVDGEQATCEPVL KAMFLADTHLLREFLGHWLDK LRREWQVERAFQATALWLLQPE VVFILEDVDFEGKWTSEAWV DDVEQFRKMFRHPSHVQLKVV AGNHDGTFHYETNTYEVEWR NRNNSPFIMGSITPTDYALSKCH LPPEDEVLIYCGVKLPDRIVDS KAGLLKLPVKNVISTQLQFPSI MDQLLYNLFNETSPLVMCLD VMAMSNRGNHHLAATRLRKV LDHNSLPAREQNWTENEFDEL EVVFRRWVITSSSELKEC/DVLT QWKEAKNLEKRLDELLTRITSL QKNINDLIELKNTAQELHEAYT SINSQIDQVEERISEIEDQLNEIK CEDKIREKRMKRNKQTLQETW DYVKRPNPCWIGVPESDGENG TKLENTLQDIIQENFPNLAQA NIQIEIQRTPQRYSSRRATPRHI IVRFTKVEMKEKMLRAAGEKE DETDNNEFFLWSQKGKRACTL NDHVEESCPTTKNAACLGTPHIC
17538	47906	A	17644	1	282	PIYRVSRKAANFEWSPQEKA QQVQAAVQAAWPLGPYPAD PMVLEVSVADRADWSCWQA SI/GHKVGHAQQHSIIKWKWYI RDWARADPEGT
17539	47907	A	17645	3	903	
17540	47908	A	17646	1	349	
17541	47909	A	17647	1	489	
17542	47910	A	17648	1	352	
17543	47911	A	17649	1	505	KTDGSRWMTVDYHKLNQVAT PVAAPVDPVSLLEQINTSLDT WYAAIDLGNVFFSIPVHKVHQK KFAFSWQQQYTFVTPLPQGYIN SPALCRHFVRRHLD/RFSLPQDI TVVHYIDDIMLVG/PLIYRMTR KAAIFEWGPEQKALQQVQAAV QAALPLGPYPADPMRLR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17544	47912	A	17650	1	1557	MASPEAVASQDNDGFSQKPPPT PLFASRSVNRLKSQRTPRGEVE SVTDGEKTDGWSRMTVDYCKL NQVVTPIAAAAPDVVSLLEQIN TSPDITLVHYIDIMLNGSSEQE VTNTLDLLVRHLCATGWEINPT KIQGSSTS VKFLGVQWCGDCR DVPSKVKDKLLHLAPPTTKKEA QHLTGLFGFRKYIPYLVLLC PIYQVTRKAASFQWRPEQEKAL QQVQAAMQAAALPLGPYDPAGP MVLEIAVADTEAVWGH/WHSA SFPSPHCPCHMPG*TKWP*WQG WRLCMGSA TWTSTHEG*PGYG HQ*VPNLPAEATNTEPAI*HHS/ SRRSASYLVAG*LYWTSCIMER AEHLLWIWVCLSCMCQFCQD YHPWTHGMPYPPLWYSTQLCL *PRHSLYH*RSVAVGSCSWNSL VLPSPSS*SSRVDRTPVERPFEIT TTMPTSQESRVQESRGSGSGT THHHP**STSNIFASCFYGITFC WSRGLSSRGRNAATRRQNSIK L*VKIATWTLWAPPTSKL
17545	47913	B	17651	47	838	
17546	47914	A	17652	1	1566	
17547	47915	A	17653	1	981	MVAIAKVLIAYKEDSDSHNQPN TRMTVSKGPVSAVEGRRRGQD SDDCVEENDAVRTWPPSRILRT ESHPSPHTC SWRRHLLSSCPYT GMSFPIPPSSGNISSTHAVISFPPL SEEMNPMLPKATVMTSLEAAA RQNLKSRQAPRCEVESVTHIEEV YYTRKELFEFSNLYRKKSGEQI REWILRKTDGWSRITVDYRKL NQMVTPIAAAAAPDVV/VVSLLEQ INTSPGTWLCNLIWRDLDCFL LPQNTLVHYTDDIMQIGSSEQE VANTLDLLPALMASW/ENSP*SI DRGRED*SLVHKWFCTICRHP KVDSCSTTAPF*DIPEGQQL
17548	47916	B	17654	179	1219	
17549	47917	A	17655	1	2655	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17550	47918	A	17656	1	942	MVGKAKWKPLELPLRKIVNQ KQHHIPEGIAEIAATIKDLKDAG VVIPTTSPFNSPIWPVQKTGDS WRMTVDYCKLNQVVTPIAAAV PDVVSFLEEINTSLGTWYAAID LANAFFSIPVHKVHKPFPAFSW QG/QQYTFVTLPQDYINSLAL*H NLIWRDLDFYLLLDITLVHYI DDIMLIGSNDHKVGGAQQHSII KWKLYIHDQAQTGPEGTTTSVI AQWAHEQSGPGSRDGGYAWA QQHGLPLTKADLATTAECPVC QQQRPTLSPRYGTIPSLPLTKAL TLQLKKCSSGPMIMEFTGLAM FPILKQLD
17551	47919	A	17657	1	868	
17552	47920	A	17658	83	346	
17553	47921	A	17659	1	643	MVGKAKWKPLELPLRKIVNQ KQHHIPEGIAEIAATIKDLKDAG VVIPTTSPFNSPIWPVQKTGDS WRMTVDYCKLNQVVTPIAAAV PDVVSFLEEINTSLGTWYAAID LANAFFSIPVHKVHKPFPAFSW QG/QQYTFVTLPQDYINSLAL*H NLIWRDLDFYLLLDITLVHYI DDIMLIGSNDHKVGGAQQHSII KWKLYIHDQAQTGPEGT
17554	47922	C	17660	38	202	
17555	47923	A	17661	3	410	LKSRQAPRCEVESVTHEEYVYT RKELFEFSNLYRKKSGEQIREWI LRKTDGSGWRITVDYRKLNQMV TPIAAAVPDVVVSLLLEQINTSP GTWLCHNLWRDLDFCLLPQN ITLVHYTDDIMQISGSEQEVAN TLDLL
17556	47924	A	17662	2	526	
17557	47925	A	17663	2	431	
17558	47926	B	17664	55	1506	
17559	47927	A	17665	1	753	
17560	47928	A	17666	73	310	QLAEPHWPDP*KAGGFEWGP EQKKALQ*VQAAVQAALPLGP YDPADPMVLVVSVADKDAVWI FHLSGSDRWRRITYRCL
17561	47929	A	17667	323	687	KTDGSGWR/TVDYRKLNQVVTPI AAAVPDVVSLLLEHINISPGIWI HQKQFAFS*QQQQT/FTVL/PH GYINSLALCHNLIRRDLDHFSLP QDITLVHYIDIVLTGSSEQEVA GSLESTCRHTKV
17562	47930	A	17668	3	1363	
17563	47931	A	17669	1	1203	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /possible nucleotide deletion, ~possible nucleotide insertion)
17564	47932	B	17670	130	1374	
17565	47933	A	17671	1	1063	
17566	47934	A	17672	3	239	
17567	47935	A	17673	231	368	NKHQEDSLKPPIPGPSSWTA/P KPTLGQKGTCCTEKKKKKKKK GRI
17568	47936	A	17674	1	1270	
17569	47937	C	17675	100	270	
17570	47938	A	17676	459	1978	
17571	47939	A	17677	35	347	VVRAWYPGWGQGSEKEWQW DQQEALGRVGRSKVTGEWEGR AGPEGTGTQNGEGPRGILEVGGT TAPFCLAEGEWGPGGHPHLLF PPSPPRPPPPPTTPEPPS*PPSP PRPPQPPTTPEPPS
17572	47940	A	17678	236	397	NWLQPCG*AHPTGSGFPAPKLC PASPGAFSNEILSEPGPTLAPM PT/GAPCRSHGAGHSGDPGWPS SSPTGEDTNSAGPGAARVQMG CGHCVSLVPR*/CCWTPGGA
17573	47941	A	17679	132	492	TDHRDRKDKHPPALPASAMDK KNA/GQEGRPASRGSSPMATA TTGPQGVMPGYH*CSLRPKGSS VGLW*MLPGLGLTLQDSGLPS GPRQVQNYCPGAKALNQGPQE PA*CKASNQRPSVYLPTRYPS EQHVTEKTNILLRYLHQWTK RTLPRRKTRSKQRKLTGYGYCH YRSTGSNARLPLMFIKTQGFES RLVVDAAWPGTHPSGQWAPF WPKAGPELLSRSQFESGTSRA RLMFYPTMAAPVPK
17574	47942	A	17680	618	755	
17575	47943	A	17681	796	1092	
17576	47944	A	17682	1	391	
17577	47945	A	17683	1	697	
17578	47946	A	17684	1	888	
17579	47947	A	17685	749	1667	
17580	47948	A	17686	1	2088	
17581	47949	A	17687	189	438	
17582	47950	A	17688	387	497	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
17583	47951	A	17689	1	728	MAQEIEGDRLEFRARLTRRVQG KGPCGPLKAPLGMVPECHSVK PSRDTFDSTKSFKALLSFLKIP AIDVHKPIDHPINFTEPDGHRRA PARHRHSTAAAVTMSPSGP/PA AAPSPCSPIPRHG*GPLRATSYC PVSWKQKQNSVSNKQTNEQTK TAKAEGARSRGPRNKIPGLPPG PRSGRLRIWLPPREGSGQFTPAR GHPQPPCSGKGTCCQSIQNL SRISPVGTSRGRTSRQIRVRK
17584	47952	A	17690	1	819	
17585	47953	A	17691	1	2115	MSGYSYSSVWAEDDIQFDSRFLE LKGDTKIDLKRFSSQGYVEPGK YNLQVQLNKQPLAEEYDIYWY AGEDDVSKSYACLTPELVAQF GLKEDVAKNLQWSDHGKCLKLP GQLEGVEIKADLSQSALVISLPQ AYLEYTWPWDPPSRWDDGIS GIIADYSITAQTRHEENGDDDS NEISGNGTVGVNLGPWRMRAD WQNTYQHTRTLQALGEDYDLS DIFDGLNVYGGVSTDDQMLPP HLRGYAPDISGVAHTTAK
17586	47954	A	17692	1	1080	
17587	47955	A	17693	1	253	
17588	47956	B	17694	1	1069	
17589	47957	A	17695	1	764	
17590	47958	C	17696	136	990	
17591	47959	A	17697	1	1422	
17592	47960	A	17698	547	1017	
17593	47961	A	17699	176	431	
17594	47962	A	17700	1	846	
17595	47963	A	17701	1	1815	
17596	47964	A	17702	1	1578	
17597	47965	A	17703	1	1149	
17598	47966	A	17704	22	441	
17599	47967	A	17705	828	920	
17600	47968	A	17706	1	231	MESKRLDNA/CAGGGD*PQLH QCPRTAVD*RRNQTAFA*RDA STYRHESGGNASPECHGLYQR QKNADGGGGQRR!
17601	47969	A	17707	1	563	
17602	47970	A	17708	19	372	
17603	47971	A	17709	134	491	
17604	47972	A	17710	1	969	
17605	47973	A	17711	59	839	
17606	47974	A	17712	186	725	
17607	47975	A	17713	1	251	
17608	47976	A	17714	1381	2217	
17609	47977	A	17715	357	804	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, v=possible nucleotide insertion)
17610	47978	B	17716	1	2361	
17611	47979	A	17717	1	2832	
17612	47980	A	17718	1	3477	
17613	47981	B	17719	143	3122	
17614	47982	A	17720	1	3018	
17615	47983	A	17721	1	4371	
17616	47984	B	17722	1	2010	
17617	47985	A	17723	1	2168	
17618	47986	A	17724	1	2067	MKEIEIQKSLPKINESRSWFFEKI HKIDRLRLARLIKKREKNQIDTI KNDKGDIITANPTAIQTITREYY KHLVANKLENLEEMDKFLDITY TLPRLNQEEAESLNTPTGSDIE AIINSLPTKKSPGPDGLTAEFYQ RYKEELKKEGILLSFFYEASILLI PKPGRDITKKENFRPISLMNID AKILNKILANRIQQHIKKLIHHD QVGFIQMGQGFNICKSINVIQ HINRTKDKNHTIISIDAEKAFDK IQQPFMLKTLNKLIGDGYLKKII RAIYDKPTANIILNGQKLEAPPL KTGTROGCPVSPVFNTVLEVL AREIRQEKIKGILGKEEVKRS LFADDMIVYLENPVSAQNLLK LISNFSKVSGYKINQVKSQAFI YTNNRQTESQIMSELPFTIAPKR IKYLRQLTRDVKDLFKENYKL LLNEIKEDTNKWKNPSCWVGR INIVKMAILPKGIHRFNAIPIKL MTFFTELEKTTLKFIWNQKRAR IAKSILSRKYKAGGSMPLPDFKL CYKATVTKKAWYWYQNRDID QWNRTEPSEIMPHIYNYLIDFKP EKNKQWKGDSLFNKWCWENW LTICRKLKLPFLTPYTEINSRW IKDLNVRPKTIKLEENLGNTIQ DIGMGKDFMSKTPKAMATKAK IDEWDLCLKSFCATKETTVR VNRQPTWETIFAIYSS
17619	47987	A	17725	1	3457	
17620	47988	A	17726	1	3630	
17621	47989	B	17727	1	3384	
17622	47990	B	17728	1	2199	
17623	47991	A	17729	1	3924	
17624	47992	A	17730	1	3345	
17625	47993	A	17731	1	2382	
17626	47994	A	17732	1	3720	
17627	47995	A	17733	1	3894	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
17628	47996	A	17734	1	2427	MGCVRQIPLGTHPVVHQLTSIP QNCQSPQKTRKDREIGQPRGAY GDMRSKCNVMLMMESWNRKR TLEIQTIREYYKHLTYTNKLENL EEMDKFLDTYTLPRLNQEEVES LNRPIHSDIVTIINSLPTKKISPG PDRFTAKFYQRYKEELVPFLLK LFQSIK/EGILPNSFYEASIIIPK LGRDITKKENFRPISLMNTDAK ILNKILANRIQQHIKKLIQHDQV GFIPGMQGWFNIRKSNIIQHIN RIKDKNHHIISIDAFAKFDKIQQ PFMLKTLNKLGIQDGTYLKIIIRAI YDKPTANIILNGQKLEAFPLKT GTRQGCPLSPLLFNIVLEALAR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPVSAQNLLKLIS NFSKVSGYKINVQKSQAFLYTS NRQTESQIMSELPFTIASKRIKY LGIQLTRDVKDLFKENYKPLLK EIKEDTNKWNIPCSWIGRINIV KMAILHKALYRFNAIPIKLPMT FFTELEKTTLKFIWNQKRACIA KSILSQKNKAGGITLPDFKLHY KATVTKTAWYQYQNRDIDQV NRTEPSEIIPPIYNYLIFDKLDKN KKWGKDCFLFNKWCWQNLAI CRKLKLDPLLPYTKINSRWIK DLNVRPKTIKTLEENLGITQDI GMGKDFMSKTPKAMATKDKID KWDLIKLSFCTAKETTIRVNR QPTKWEKIFVTYSSDKGLISRIY
17629	47997	A	17735	1	3780	
17630	47998	A	17736	1	2808	
17631	47999	A	17737	1	4842	
17632	48000	B	17738	331	3282	
17633	48001	A	17739	1	2880	
17634	48002	A	17740	1	3213	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, \ =possible nucleotide insertion)
17635	48003	A	17741	1	2561	MKAEIKTFFETNKNKDDTYQNL WDTFKA VCRGKFIALNAHRRK QERSKIDTLTSQLEKEQEQET YSKASRRQETIKIRAELEKETQ KTLQKINESRSWFFEKINKIDRP LTRLIKKKREKNQDISIKNDKG DITDPTETQTTIREYYKHLNAN KLENLEEMDKFLDTYTLRLNQ EEVESLNRPTGSEIEAIIINSLPT KKSPGPDGFTAIFYQRYKEELV PFLKLLQFSIEKEGILPNSFYEAS IILITKPRHHTTKNFRPISLMNI GAKILNKILANRIQQHIKKLIHH DQVGFIPMGQGFNIRKSNINVI QHINITNDKNHMIISIDAENAFD KIQQRFMLKTLNKLGDGMYL KIIRAIYDKPTATQNLKLGIGNF SKVSGYKINVQKSQAFLYTNN QTESQIMTELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLSEIK EDTKGKNIPCSWVGRNIMK MDILPKVIYTFNAIPIKLPMTFFT EVEKTTLKFCINQKRIAKSFL SQKNKAGGITPPDFKLYYKATV TKTACYWYQNRDIDQWNRTEP SEIMQHIYNYLIFDKPDKNKQW GKDSL FNKWCWENWLAICRKL KLDSFLTPTYKINSRWIKDLNIR PKTIKTLEENLGSIIQDIGMGKD FMSKTPKAMATKAIIDEWDLIK LKSFTAKETTMVRNRPQTEW EKIFATYSSDIGLSIRYNELKQI
17636	48004	A	17742	1	5042	MTGSNSHITILTLLNGLNSAIK RHRLASWIKSQDPSVCCIQETH LMCRDTHRLKIKGWRKIYQAN GKQKKAGVAILVSDKTDKFT KIKRDKEGHYIMVKGSIQQUEEL TILNIYAPNTGAPRFIKQVLSL QRDLDSHTLIMGDFNTPLSILDR STRQKVNKDTQELNSALHQAD LIDYRTLHPKSTEYTFFSAPHH TYSKIDHIVGSKALLSKCKRTEI ITNYLSDHSAIKLELRJKNLTQS RSTTWKLNLL
17637	48005	A	17743	101	471	MLSRILASRNRMRF AVEVVRA VRE/RVGNDFIHYRLSMLDLVE DGGTFAETVELAQAVEAAGATI INTGIGWHEARIPITATPVPRGA FSWVTRKLLKGHVSLPLVTTNRI NDPQVADDILSSTH
17638	48006	A	17744	161	311	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
17639	48007	A	17745	221	799	
17640	48008	A	17746	20	346	
17641	48009	A	17747	431	1578	
17642	48010	A	17748	1	771	
17643	48011	A	17749	3	863	AVLRREMQRMEGAWLGS DLV DQGERLNRLGFFETVDTDTQ RV/PGSPDQVDVYK/IVSLGGR LFYNDFQADDADLSDYTNKKIE IIDSADYFHIDIMDGHFVPLNT LSPFFVSQVKKLATKPLDCHLM VTRPQDYIAQLARAGADFITLH PETINGQAFRLIDEIRRHDMKV GLILNPETPVEAMKYYIHKADK ITVMTVDPGFAGQPFIP EMLDK LAELKAWREREGLEYEIEVDGS CNQATY EKLMAGADVFI VGT SGLFNHAENIDEAWRVMTAQIL AAKSE
17644	48012	A	17750	2	893	
17645	48013	A	17751	139	2057	
17646	48014	A	17752	2	361	
17647	48015	A	17753	497	897	PRSAFSAWLAFCST/TKDSHPL LAQLLDGVENLDHRQHLLFTA GHGARPLIRAHADVEENDCHPF ILIVHPSIHPIYLSIHPSTIRGERL MTQIPLIKHFLAGVTGLKLTQQ MRFCENVCLPLIATAGNRQTH
17648	48016	A	17754	83	1038	PSRAGHLPPKIKSSMAGTTPCLS IMVRQRK/PLVPAPLYQGM RDG KIVRFEEITRTPLEVQDCLLASA LALGLALMGNAQAVTTIPFWH SMEGELGKEVDSLQRFNAEN PDYKIVPTYKGNYEQNLSAGIA AFRTGNAPTYFAGHIMQACGV ALSATYFIRRKVVSLSDQKLNI AMTFVGSMSGALLVQYVQAD VLRQILPILVICIGLYFLMLPKLG EEDRQRRMYGLPFALIAGGCV GFYDGGFFGPAAGSFYALAVTL CGFNLA KATAHAKLLNATSNIG GLLLFILGGKVIWATGFVMLVG QFLGAPHGVPTCV
17649	48017	A	17755	571	1728	
17650	48018	A	17756	332	511	
17651	48019	A	17757	581	637	RALR*SLQDGS AKRGASVS
17652	48020	A	17758	1	1098	
17653	48021	A	17759	1	366	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17654	48022	A	17760	321	611	GEGENYCDSSVMTWVAI*QN WQCHCCSLRCASLRQG*RQDV TDRGETIKREMARNVV/WRA RVINAGFSRGSLLRGPSIDHRRK RLSASIRQFYPRP
17655	48023	B	17761	95	645	
17656	48024	B	17762	1	3978	
17657	48025	A	17763	1	328	MLIAEGLMTAKNITVITNSLPA AFALSENKDITLVVCCGTVRHK TRSMHGSIASRLQDINADLMF VGADGIDAVNGITTFNEGYSS GAMVTAANKVIAVLDSKFN RGFNQVLPIEKIDITDDAVSEV DKLALQKTRDTSVYVLSLADF FRTASTIGERDGTQVEMILFAGF VYLVISLSASLLVLTDCSTEVK KGEVVVVCGPSGSGKSTLIKTV NGLEPVQQGEITVDGIVVNDKK TDLAKLRSRVGMVFQHFELFPH LSIHENLTAAQVKVLKRDKAPA REKALKLLERVGLSAHANKFP AHYSGGQQQRAIARALCMDD IAMLFDEPTSAIDPEMINEVLD VMVELANEGMTMMVVTHEM GFAVKWRIGSTQQGAQLHCNR WLHVRKHLLVAYYNLVGIKPG KESYMRLENEKALDDFCQSLVD YLSAGHFSIYERILHKLEGNGQ LARAANKIWPQLEANTQIMDY YDSSLETAIDHDNYLEFQVQLS DIGEALAAAFVLEDKLILLVLD AAR*NLKLVIIIDGGGFQGTGI VVIIHNLISIGFELRPNLRGAREL PVAFLMKNALINTEMSGRQVI DQALTKIIKGFV
17658	48026	A	17764	216	473	DALRVASGNGCYSALLPLFCRL L*AESA*VPVQRPCGETLMRSS VVCLGGTAPECSSLGCAEKSGR SWPRKV AHTLGSWTVPRES
17659	48027	B	17765	1	1570	
17660	48028	A	17766	1580	1764	PASSLVMR*CLNRIA'SRAHQPA VRAY*ASAPGIA*KENA*G*RL HHR*NPAGKPDPLGL
17661	48029	A	17767	1	1827	
17662	48030	B	17768	1	1281	
17663	48031	B	17769	72	1169	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17664	48032	A	17770	20	552	SAGDA*DWFWHGGVAGGNG* RSP*A/VTSSALKCIHRAVRAW LLRMKKV*ATCA*CVTMRLLK CIK*/CPDNLRLMVQLFFDPWH KARHNKRRIQVPPFAELVKS QLGGVFHMMATDWEPIAEHML EVMSSIDGYKNLESNDYVPRP ASRPVTKFEQRGHLGHGVWD LMFERVK
17665	48033	A	17771	3287	3568	CAFQRNIWHAKLNASPTPVFVP **LLASLTIPMKPAAMPGGKMD WWRVCRASASRPCQK*SLCQT PASVNTLLTVTAVCCASMASTT TRLWKI
17666	48034	A	17772	1	3126	
17667	48035	A	17773	249	3943	
17668	48036	B	17774	1	2178	
17669	48037	A	17775	263	434	
17670	48038	A	17776	619	1184	MRTSCGSGFIKRRVMRIASGMV AENRAV**PSGICAIMVSTSSMK PMRSISSASSRTRPLSL/AEVQSA TFQVVQQTARSTDNDLRPLTQ GA*LVHVTILAAVQS/PHLRAC V*RNPSLLQQPVPPVGRGVPAP ESVVLSAQDDQDSATEVKRMLQ FFRSFSGPYPERRGHSADVEYT LPELEMVFRNPDR
17671	48039	A	17777	1	1485	
17672	48040	A	17778	497	1838	
17673	48041	A	17779	534	922	
17674	48042	A	17780	1	458	MQQLEEALKQLAQGSGSSQAL TQVRRWDSACQKLPDANLALI SVAGEYAAELANQALDRNLNV MMFSDNVTLDEIQLKTRARE KGLLVMPGDC/WYVDDCRHTA GFC*RDAGRQYWRHWRFRYR DSGAVFADCAGRGGNYSRDWP WRARPQP
17675	48043	A	17781	2	270	QAGKYYGGAVFAPVFGAIMGG VLRTMNIEPDALTSVDKNEFVI NHGEGTGGRS*FARPSCSVGAR RTFASTARDTRQPCGCGGRSL CS
17676	48044	A	17782	1	1437	
17677	48045	B	17783	63	201	
17678	48046	A	17784	1016	1263	
17679	48047	A	17785	1	933	
17680	48048	B	17786	1	1888	
17681	48049	A	17787	845	2220	
17682	48050	A	17788	110	581	
17683	48051	A	17789	696	989	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, /=possible nucleotide insertion)
17684	48052	A	17790	199	573	
17685	48053	A	17791	1	3270	
17686	48054	A	17792	1	3018	
17687	48055	B	17793	1	708	
17688	48056	A	17794	264	512	FLAQWLPELPLSRHLRQCTWCR RHRNRW*VRS�HRCWLADCRC PELRIRSHDL*SLAQRLYDRTR TPDRRQLRTVLHWLLC
17689	48057	A	17795	1	2109	
17690	48058	A	17796	1239	1854	YHDDRNPQDAGNPSNADSGPQ I*QATGSPRRLVRRRWKRVNR LLAGKLAIVIDDFGYRPHNENQ VLAMPISAISVAVLPSPHAREM ATKAHNSGHEVLIHLPMAPLSK Q/TAGEKYATPGDEQRRN*AHY S*WVNNVPYAVGINNHMGSK MTSNLFGMQKVMQALERYNL YFLDSVTIGNTQAMRAAQGTG VKVITRKVFLDGFAG
17691	48059	B	17797	1	2243	
17692	48060	A	17798	74	295	TISVLWMLSLNNTSKKRLA*TG SIGFFGLHSFTPRNGLRGASGTA FFGGVEVSTCGSFSKLLAFTSV MSGGRL
17693	48061	A	17799	1	1872	MLRIHCMQHWYNLSDGAMED ALYEIASMRFLFARLSLDSALPD RTTIMNFRHLEQHQQLARQLFK TINRWLAEGVMMTQGTGLVD ATIEAPSSSTKNKEQQRDPETH QTKKGNQWHFGMKAHIGVDA KSGLTHSLVTTAAEHDLNLQ GNLLHGEEQFVSADAGYQGAP QREELAEDVDWLAERPQKV RTLKQHPKRNRTGISIAYMTGSI RARVEHPFRIKRQGFVTARYR GCLNTITNGDVFPLATWFGG
17694	48062	A	17800	1	1269	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
17695	48063	A	17801	1	1988	MNDSEFHRLADQLWLTIEERLD DWDGSDIDCEINGGVLTTTFE NGSKIINRQEPFLHQVWLATKQ GGYHFDLKGDEWICDRSGETF WDLLEQAATQQAGETITGFRV YTLQLNAQLRLGFLRLPYSVNL ATEYKSLTHYTKVPEATNPSLE SSVDVKLSANRLKYPMMRKRL MKMWREAKALHSDPVEAWAS IIEDADKAKSFKQARGRGFVR SSWQEVNELIAASNVTIKNYG PDRVAGFSPIAMSMVSYASGA RYLSLIGGTCLSFYDWYCDLPP ASPQTWGEQTDVPESADWYNS SYIIAWGSNVPQTRTPDAHFFTE VRYKGTKTVAVTPDYAEIAKL CDLWLAPKQGTDAAMALAMG HVMLREFHLDNPSQYFTDYVR RYTDMPLMLMLEERDGYAA GRMLRAADLVDA LGQENNPE WKTVAFTNGEMVAPNGSIGF RWGEKGKWNLESIA/RIENPHF RSVKHNPVLVRQLPVKNLTLV DGNTCPVVSVDLVLANYGLD RGLEDENSAKDYAEIKPYTPA WGEQITRVPRQYIETIAREFADT AHKTHGRSMILGAGVNHWHYH MDMNYRGMINMLIFCGCVGQS GGGWAHYVVGQEKLRPQTGWL PLAFALDWNRPPRQMNSTSFFY NHSSQWRYEKVSAQELLSPLA
17696	48064	A	17802	3854	5726	
17697	48065	B	17803	1	1869	
17698	48066	A	17804	391	1246	
17699	48067	A	17805	58	1353	
17700	48068	A	17806	872	2123	
17701	48069	A	17807	1	1422	
17702	48070	A	17808	217	509	
17703	48071	A	17809	76	422	
17704	48072	A	17810	2	288	
17705	48073	A	17811	1	1626	
17706	48074	A	17812	779	832	
17707	48075	A	17813	1	1818	
17708	48076	A	17814	1	645	
17709	48077	A	17815	157	293	ALVCSSPWPEKCKSKPQ*DTIS HQLIEWQSLKSQETTGAGEDVE K
17710	48078	A	17816	1	1446	
17711	48079	A	17817	1	306	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, v=possible nucleotide insertion)
17712	48080	A	17818	71	513	TIRSLGLWSQMEMRNLGTGA KKYKLPSSENTINTSTQIN*KI*K KRINSSTHTLSQD*TRKKLNL*I DQ*QELKLWQ*SIAYQPKRVQD QMQDSQ/REFYQRYKEELHINRA KDKNHMHISDAEKAFDKIQQR MLKTLNEVLMGRISK
17713	48081	A	17819	I	828	
17714	48082	B	17820	I	567	
17715	48083	A	17821	I	1224	
17716	48084	A	17822	I	897	
17717	48085	A	17823	207	547	NHFLQGLGPLLQFPTSSSSPSET TSAWTLCPHHYQAFGQSHSTSL *EV/HKLSHIFMSSSEPSKLFQPL PVTQFQSRFHIFRYLFSSIPLYW CQFTVLVHFPAADKDISVTITP
17718	48086	B	17824	I	1128	
17719	48087	A	17825	I	765	
17720	48088	A	17826	I	952	
17721	48089	A	17827	1570	2176	FLQSTHLTKG*YPESTMNSNKF TRKKQPNQRAKDMKRPFSEKED IDAANKHMKKCSSSLAIREMQI KTTMRYHFTPPVRMAIHKSSGNN RCWRGCGEIGTLHCWWDCKL IQPLWKSMMWFLKDLELEIFPD PAIPLLGYPKDYKSCCYKDTCT HMFIAALFTIAKTWNQPKCPTM IDWIKKMWHIYTMEEYGAIKR MSSCPL
17722	48090	A	17828	I	531	
17723	48091	A	17829	I	462	
17724	48092	A	17830	876	1111	
17725	48093	A	17831	2	276	LLPGFFCSNLAPVPPSGGHQHD LPYPSSA*NPGASGTGQARMGQ SHQWAFWLWRKDAHVRKESGY MYSLYDRAYGERTTGRGRGR GPIPRP
17726	48094	A	17832	I	1290	
17727	48095	A	17833	1293	1863	RSTPSMKE/QLATALPRHMTAE RMIRIANTEFRKVPALGNCDTM SFVSAIVQCQPLGLEPGSAGH AYLLPFGNKNKESGKKNVQLII GYRGMIDLARRSGQIASLSARV VREGDEFSEFGLDEKLHHRPGE NEDAPVTHVYAVARLKDGGTQ FEVMTRKQIELVRSLSKADTDI* PWMCPCPMKRKSAT
17728	48096	C	17834	I	786	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
17729	48097	A	17835	2	654	FCRQRQCQVYRRGRFTHAAFT GTHRDNLVQVQSKLRADGCAL EDYFSQSEQVLPSLEAFDEAPQ DVVNKVFNTLRTIMEGQSIVN VDEIHRAARFFYQARQRDLYG AGGSNAICADVQHKFLRIGVRC QAYPDAHIMMMSASLLQEGDV VLVVTHTSGRTSDVKAARELAK KNGAKIICITHSYHSPIAKLADY IICSPAPETPLLGRNASARILQLT LLDAFFVSVAQLNIEQANINMQ KTGAM*KRP*NWQKRTGQRLF V*PIATIHR*RNWPILFAHQPRK RRY*VVMRQEYYN
17730	48098	A	17836	1	4806	
17731	48099	A	17837	1	466	
17732	48100	B	17838	193	1045	
17733	48101	A	17839	1196	2732	
17734	48102	B	17840	1	732	
17735	48103	A	17841	290	664	
17736	48104	A	17842	302	1716	
17737	48105	A	17843	249	909	
17738	48106	A	17844	36	340	
17739	48107	A	17845	902	1455	RRCVLRP/GLDIMRNLNRIRQQ QRLEQAAAYEMTALRAATIELGP LVRGLPHLRTIHRQLYQDIFDW AGQRRITLNLHGFVPKSTTVVET NGPSDQSIAMRRPGQTISRHHQV QKKLGIELTNCYEHSGLPDIKN VTGILICRQTHARPARLARLIFT ANKTNTINALVDIEVDDFFDTA CQIDCCFETGSHSVLARLGAS AQDLQLDATSASHGSK
17740	48108	A	17846	1	1668	
17741	48109	A	17847	1	1080	
17742	48110	A	17848	1	907	MRAGFTSNVLTFLTCTSHFLNT FRAADVAVQATATSNFRQIQVF EDITQYNGKYILAVEGNPPLGE QGMFCISSGRPFIEKLRKAAAG ASAIHAWGTCASWGCVCQAARP NPTQATPIDKVITDKPIKVPGCP PIPDVMSAIIYMTVFDRLPDVD RMGRPLMFYQRIHDKCYRRA HFDAGEFVQSWDDDAAPKVT ACTKWAAGLPPITVPVHTLE* WVWSRLLAGGNGLDRGRFSGV DSSWISYSSAISVTMAPATTLN QTSKAALAAACIAISTLCNGWPA VILAQHRWMKWSGLAS
17743	48111	A	17849	239	899	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17744	48112	A	17850	155	249	CMRRKLTALTGGEPDR*TAMR* HNKSPALTGS
17745	48113	A	17851	1	1326	
17746	48114	A	17852	1	1394	
17747	48115	A	17853	46	705	
17748	48116	A	17854	2	488	
17749	48117	A	17855	563	687	LLARTSRQ*KTSLNCVNKL*MP SGQWAVLLLPVCRWCWLRT
17750	48118	A	17856	1	1429	
17751	48119	A	17857	1	1037	
17752	48120	A	17858	2	276	LLPGFFCSNLAPVPPSGGHQHD LPYPSSA*NPASGSGTQARMGQ SHQWAFI.WRKDAHVRESGY MYSLYDRAYGERTTGRGRGR GPIPRP
17753	48121	A	17859	1	1290	
17754	48122	A	17860	1293	1863	RSTPSMKE/QLATALPRHMTAE RMIRIANTEFRKVPALGNCDTM SFSVAIVQCPQLGLEPGSASGH AYLLPFGNKNEKSGKKNVQLII GYRGMDLARRSGQIASLSARV VREGDEFSFEGFLDEKLHPRGE NEDAPVTHYVAVARLKDGGTQ FEVMTKRQIELVRSLSKADTD* PWMCCPMKRKSAT
17755	48123	A	17861	207	210	QLSLLNLPDLSIHRLASSALK RVNDQVGAAPPRHQSPPRNA VSLAPRPVPVEWSCAKLLCLSC RVNCQD*GNKALTSIHFWGE GIVGKMWLFYCTEAHFVRDPS GYSN
17756	48124	A	17862	2	654	FCRQRQCQVYRRGRFTHAAFT GTHRDNLVQVQSKLRADGCAL EDYFSQSEQVLPSLAFDEAPQ DVVNKVFNITLRTIMEGQSIVN VDEIHRAARFFYQARQRLDYG AGGSNAICADVQHFKFLRIGVRC QAYPDAHIMMMSASLLQEGDV VLVTHSGRTSDVKAALVELAK KNGAKIICITHSYHSPIAKLADY IICSPAPETPLLGRNASARILQLT LLDAFFVSVAQLNIEQANINMQ KTGAM*KRP*NWQKRTGQRLF V*PIATHR*RNWPILFAHQPRK RRY*VVMPRQEYYN
17757	48125	A	17863	1	4806	
17758	48126	A	17864	1	466	
17759	48127	A	17865	214	907	
17760	48128	A	17866	1288	2757	
17761	48129	A	17867	705	839	AGRSRENNRYRAKQPRCKR*F *CVYRFYPSGRYAEPSSAPNYT

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
17762	48130	A	17868	199	1628	
17763	48131	A	17869	746	1013	TRARRRFITALRFSSLVASAPCC NWAAAFSSYYFCQQIVR*PHFDR QEKRSVQNQPDGCGSSASQSVR QRPKSPQQPVQSANPSLLLCR
17764	48132	A	17870	2	331	
17765	48133	A	17871	1	591	
17766	48134	A	17872	1	1197	
17767	48135	A	17873	45	3402	NRFSHISVTSACGWYHIPVEE/Q PEY/PGNLELERRIRSAIRWNAI MTVLRASKKDLELGGHMASFQ SSATIYDVCFNHFFRARNEQDG GDLVYFQGHISPGVYARAFLEG RLTQEQLDNFRQEVHGNGLSS YPHPKLMPEFWQFPTVSMGLG PIGAIVQAKFLKYLEHRGLKDT SKQTVYAFLGDGEMDEPESKG AITIATREKLD/NLVFVINCNLQ RLDSP/RWDELLRKDTSGKLIQL MNETVDGDYQTFK
17768	48136	A	17874	452	1395	LAGATGTAIRLILHAPLLPIKM RLP/TVSEGKPDSPAAEKFAAE NKNTYGALASLELAQQFVDKN ELEKAAAQLQQGLADTSDENL KAVINLRLARVQVQLKQADAA LKTLDTIKGGWAAIADLRGE ALLSKGDKQKGKHQRAENCEIQ GYIDMIKHLVAPLVFTSLILTGC QSPQGKFTPEQVAAMQSYGFT ESAGDWSLGLSDAILFAKNDY KLLPESQQIQTMAAKLASTGL THARMDGHTNDYGEDSYNEGL SLKRANVVADAWAMGGQIPRS NLTTQGLGKKYPIASNKTAQGR AENRRVAVVITTP
17769	48137	B	17875	1	1579	
17770	48138	A	17876	182	2069	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
17771	48139	A	17877	1	2017	MESGVATRPADFDVYIDKLTE FVYKTNLFMKPFSQARKAPKR VVLPEGEARVLHATQELVTLG LAKPILIGRPNVIEMRIQKLGQI KAGVDFEIVNNESDPRFEYWT EYFQIMKRRGVTEQAQRALIS NPTVIGAIMVQRGEADAMICGT VG DYEHFHSVVKNVFGYRDGV HTAGAMNALLPSGNTFIADTY VNDEPDAAELAEITLMAAETVR RFGIEPRVALLSHSNFGSSDCPS SSKMRQALELVRERAPELMIDG EMHGDAALVEAIRNDRMPDSS LKGSANILVMPNMEARISYNL LRVSSSEGVTVGPVLMGVAKP VHVLTPIASVRIVNMVALAVL FVNADETTVVNFHACFACVEV FTVRHTTNRYQHGVVTLRFSG CFFAFHRHINAVFFRNIQAVFV ALRPEVIAIMHKLREQGHRVVV LSNTNRLHTTFWPEEYPEIRDA ADHIYLSQDLGMRKPEARIYQH VLQAEFGSPSDTVFFDDNADNI EGANQLGITSILVKDKTTIPDYF AKDKARHRTPLWA WLKLLW QRIDEDNMTTLAGNLAYVSLLS LVPLVAVVFALFAAFPMFSDVS IQLRHFI FANFLPATGDDVIQRYIE QFVANSNKMTAVGAASLAISS YLLSLIANVLMMS*SVLRMS WNPKWAWSSIWYS
17772	48140	A	17878	31	312	RGTHGCALYRRAAARCAKITL TTFISLFSSYFVIYNILLIYLIFA ASFCLLVV*CHTVFITVCSAGD VSGMSATWCAFVAISVDHFTG FNRF
17773	48141	A	17879	1	1098	
17774	48142	A	17880	1	1015	
17775	48143	B	17881	1	1917	
17776	48144	A	17882	931	1773	
17777	48145	A	17883	785	956	KKWMHSAV*WRKRSIRRVSSL GY**TQAKDRRFALPELRRIVCS TVRRYVRRWRTNRT
17778	48146	A	17884	221	367	
17779	48147	B	17885	1	1318	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17780	48148	A	17886	1190	1634	APSQTVSLPEVASSMSGVMAG VEAVSSPGPYAVCAGSLLPSGW LCVKTSVIAMIASAWSAPGAVS IKRSSAVSVRIWALCGA\QPECA VRSLPSYPAFRQVLAPVTHAL* PRRSSGCP*CDYSLQLLLQ*PAH *HLQGLLRKQLSCQR
17781	48149	A	17887	1	2499	
17782	48150	A	17888	454	1698	
17783	48151	A	17889	635	1665	KSIFWRAPADCEP/QVRQSAKV QFGDYQANGMMAVAKKLG APRQLAEQVLTHLDLNGIA EAGPGFINIFLDPFALEHVQ ALASDRLGVATPEKQTI VDYS APNRGFFGGAPLGTTLQDL TR PTKEDGLQAKPISFWAS FALQF VNVKILYGVTA LSTFVLPQTQ ALSWVVGVS VLLAMIGTFGNV CWALAGHLFQ RLFRQYGRQLN IVLALLLVYCA AFSKGTS DNVA LLFRSQRVKAN CITGYTDGQLR IFFRMLNCIF SFATQNVNVQV LITFNANFW HFYWNFTVFN V TQFAYCNH FIFCITCF CNDATPF AFFAVQQP ERVHRKTA ILL
17784	48152	A	17890	73	212	
17785	48153	A	17891	2049	2445	VFPVFLRIYFVWKKPGMKVTN ARNWQLKPLFTELPVILPDTQL HYVAVMELYS PAE*ERIQ A*FV VWSWNIWLY* A*RLIQK* HIALT PVVRTGKTK LMSAILFN ITHR MKAMNLS SPKRLP PRNCGKK
17786	48154	A	17892	1	1476	
17787	48155	A	17893	332	572	RGGA*RQKHRTSALSLSLP* NMATAVHLHRFSTRRAVTS SS ARKWNTNSGAMSG LNRSA\AV LRV*QSPEDGCCARIR
17788	48156	A	17894	80	405	PRNLKSGPPISDAISPTSKP* TI TEPISAPSL LATYKAAGCGG T QCTAINAVHSG MASFNNEVLV FLAIEKARGIN STPTSTNSVMP QIRPTSTIMT STESQRR
17789	48157	A	17895	1	1392	
17790	48158	A	17896	1	1374	
17791	48159	A	17897	1971	2306	
17792	48160	A	17898	209	449	
17793	48161	A	17899	1	240	
17794	48162	A	17900	1	456	
17795	48163	B	17901	222	3807	
17796	48164	A	17902	3140	3219	
17797	48165	A	17903	240	298	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
17798	48166	A	17904	1902	2047	NQPVYRSNGD/RIWRTGKLFPT TVFRLIRLTSPRAFPPTSYRRCS VAY
17799	48167	B	17905	1	1994	
17800	48168	A	17906	1	2151	
17801	48169	A	17907	3	1127	GTPYASQPVRPVEGSKPLIKQV LDIGAHTDKTIAQKLARVAR MHFARQLAAVATFACSAQNA IALMEEIAANFSYEMIRLTECIL GFTWNRLYQGINVHNAERVQR LAHDGHLELVYVPCRSHMDYL LLSYVLHQGLVPPHIAAGINL NFWPAGPIFRRLGAFFIRTFKG NKLYSTVFREYLGELFSRGYSV EYFVEGGRSR/TGRLLDPKTGM LRGGTRPITLPIYIGYEHVMEV GTYAKELRGATKEKESLPQML RGLSKLRNLGGYVNFGEPMMP LMTYLNQHVDPWRESIDPIEAV RPAWLTPVTNNIAADLMVRIN NAGAANAMNLCCTALLASRQR SLTREQLTEQLNCYLDLMRNV
17802	48170	A	17908	192	486	PVLVYLWVSFSWLCGRSLVCD AFGCVLCLFCWGCWGWGF SRCLVLRVLDCAVAVWCPL GVGIGLWV/RVLPGLVSAVPC CCDVLARFRVLDLWGW

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /possible nucleotide deletion, \possible nucleotide insertion)
17803	48171	A	17909	1	2470	MFQPSDSGKSFIFNMSVGVNLE GIKQPPMQQFIDNMMDASDHP KFAQYRDITLNLKLLQDDAFLAR HGLQEKRESLQALPARIPSTMV HGVTLSTMHGCPPHEIEAICRY MLEEKGLNTFVKLNPTLLGYA RVREILDVCGFGYIGLKEESFD HDLKLTQALEMLERLMALAKE KSLGFGVKLTNTLTGTINNKGA PGDSTSGVLRTYERLLTAWML TCPCADEHQGESVKKLATALT WWLRGSSQNRDEITKDGQFSNH AGGILGGISSGQIIAHMALKPT SSIDVPGRTINRFGEVEEMITKG RHDPCVGIRAVPIAEAMLAIVL MDHLLRQRAQNADVKTDIRPC AQSIGSFNSGICVGADTLPIQSE HYQVMRTDQRRYFGHPDLVM FIQLRSSQVSNLGMGTVLIGDM GMPAGGRFNGGHASHQTGLDV DIFLQLPKTRWTSQALLRPQAL DLVSRDGGKHVSVTLWKPEIFSL IKLAAQDKDVTIRFVNPAIKQQ LCLDAGTIATGCAKCDPGVSIG AYAYLLTLRAQCLAHDLDPLE PLEIDGTLPRYVFIHGGPRVFT YYTPKEESIKLFHDYLDLHRNS PNLQVQMPVPSVMFGRAPGRE KGEVNPPLRMLNGVQKFFAVL WLGRDSFVRFSVSLRRMADE HGTDKTIAQKLARVARMHFA RQLRAAVGPRLPARQDLFNKL
17804	48172	A	17910	1	734	
17805	48173	A	17911	1	962	
17806	48174	A	17912	1630	2633	
17807	48175	A	17913	1360	1600	HSTGRWATTINVPITCGTKARH STSSICKTGMLLWANALKQHC LLSRNLP*KGESINVANSILSYF NLRPQCNQTRTQD
17808	48176	A	17914	1	816	
17809	48177	A	17915	703	1546	
17810	48178	A	17916	209	485	QVIRPTFIPSTSSNGAISLPASTR RDS*MANAS*RCSLA*RATMFP A*SATSIHARPGVEGT*IVRIV VIMLRLLSRRKVRGIRLPAAVLI
17811	48179	A	17917	619	1167	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17812	48180	A	17918	1	764	DSGQQLDDVQLARYLLSGQNG PKSDRPYRVR*LTGAMLKILIT L/VEIGNVTLGHIRVKIGTGCVIK NSGDWR*LRNQSVYRCGRCS GSGLYHWARLPVCVLVLSCWK VLTSSLVPPD
17813	48181	A	17919	3	1462	
17814	48182	A	17920	122	983	
17815	48183	B	17921	1	1287	
17816	48184	A	17922	289	958	
17817	48185	A	17923	1	5079	
17818	48186	A	17924	1	255	
17819	48187	A	17925	1892	2448	TESRCADGAGSVDVGTPEVPVP RVELVAKWPGSRAGGTGLGCS PWVGAGCVGLGPQARLSGPT ASTEASAKAASTLASLMWLRV RL*GACPFARTGATAPSSSKGP ELGVSGLRKATWMGRGSGCCT RGLGAGEWRAVPESCGLDESS EDSDRDHAVPFSSSSCRSMRL RPRRVARGLCRRRGV
17820	48188	B	17926	52	888	
17821	48189	A	17927	929	1148	TVWNGTCGLPFSSLMKCMVIM IMRAIQKKMMSKPDITITLVGW N*RRASVFGQPRVEKVHSAEE NQVSRSSS
17822	48190	A	17928	125	937	RISMVFPWCFCSCSRSLATTPAP TVRPPSRIAKRRPSSIAIGWIRVT TILMLSPGITITPSGSSMVPVTS VVRK*NCGR*PLKNGV*RPSS LDRMYTSDSNLHGLRPAVSPVT NTPA/SDGYSHDGLAQVDLS ANYHEGQYTSAGLSLQGGATL TTHGGALHRTQNMGGTRLLID ADGVADVPVEGNGAAVYTNM FGKAVVSDVNNYYRNQAYIDL NKLPEAEATQSVVQATLTTEG AIGYRKFAVISGQKAMAVVNF AEGKVS LAVV
17823	48191	A	17929	3992	4213	VPAIQKFPRSWKLGGERPPKA FRLRLSAA*RKSV* AQRSLAD/ SGMPLRLEKCLDTF*QIV*SAF KIQREGS
17824	48192	A	17930	1	1636	
17825	48193	A	17931	1	900	
17826	48194	A	17932	1	939	
17827	48195	A	17933	427	1250	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, ~-possible nucleotide insertion)
17828	48196	A	17934	521	805	LCPSTNTPLSCLCDLVASTEM APMRVFQAPAKVNA**LFA TIEP PYSVNKLKPY**PAWTKSLCL LAPSIWLRPAAKSYFDTPGCSIF GTAA
17829	48197	A	17935	1	2052	
17830	48198	B	17936	1	573	
17831	48199	A	17937	1	1278	
17832	48200	A	17938	161	659	
17833	48201	A	17939	1	588	
17834	48202	A	17940	695	1281	KLKPYSWAFSRQSGRSVILTPPR VTVVVVAGFGPIPVFGTVMVRP GWAAP*FLPVASVYFP*AGLAG FLKKNRGCCANPAPPPIRRPIMY PP/MQRLQEPADW/WACA/WFS GKD*WKKSPNCTRCA
17835	48203	A	17941	261	2045	
17836	48204	A	17942	1	637	
17837	48205	A	17943	31	280	
17838	48206	A	17944	1	582	
17839	48207	A	17945	1	2496	
17840	48208	A	17946	330	507	
17841	48209	A	17947	1087	1875	
17842	48210	A	17948	1	476	
17843	48211	A	17949	1	537	
17844	48212	A	17950	2	492	
17845	48213	A	17951	1	1101	
17846	48214	A	17952	2538	2833	TRRNWRPIQSSEESWRAAGSST PLTTQNRQQTAGIY*RSR*TAA RR*SPALPRRNRLATAG/WQY ATQTRQQRVYPQL*LSAPATRK NRLLANAWLTM
17847	48215	A	17953	125	1831	
17848	48216	A	17954	2	825	
17849	48217	A	17955	1	840	
17850	48218	A	17956	1	1725	
17851	48219	A	17957	463	1824	
17852	48220	A	17958	2	117	
17853	48221	A	17959	1	2640	
17854	48222	B	17960	223	1560	
17855	48223	A	17961	638	746	RIP*MT*WS*KPWHKNYMMHA QASVDNLKWKKGYYQ
17856	48224	A	17962	385	514	
17857	48225	A	17963	17	225	SSPSKFTVAFFASLVMASAVSL ALSRLSLTTLSI/CGLVLQEERT DDALVEQFSPIRRARGHAPQQE ATEM

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
17858	48226	A	17964	1	521	LVFLVLFVGFSLCFKSTYTLTY GDSPSLCDGLLII*IIIRIDTNKPA DNSISGIRDVGWVAKSYQVA/V GERLHNRTPGTSHQSDTRFDF* LC*PGSACPVLVSEHERPQANM LVEASGLAA*YQNALSCSFGY GVGLVRRQDFSSLGRFLQSAFA SNRY*QVWVFEFQQVS
17859	48227	A	17965	267	554	LRFRTAVRGRIHFRLDLLVLL GCNRYGRRGGDHGLCSVLVPR SLRLGRLPGGDSAAADAQSRH REKCR*DGVLVCDQDNRQTPV WKPHQEDVQV
17860	48228	A	17966	1	915	
17861	48229	A	17967	1226	1399	SDSNISICTCAQH*KHFRII*NCI L*EVEP*RLS*M*LQRKCVQGE SKVHSLWGI
17862	48230	A	17968	828	1070	SFFDYQTSALEHARR*LHCRT* NAGWLPHRTDRSSGYHGRCS AAGRCSSGDHSSYQQNPAAEK LPAGHPQRSQSPERTG
17863	48231	A	17969	45	1198	
17864	48232	A	17970	348	508	RLFRWCPM*S,WASYFPPEQS PDSYWLF*ECNLPTAYNSQNAII RESHAITS
17865	48233	A	17971	251	601	MAKKMSLSIAVFWRRLYAYY PHLR*KS*TNW/QWWSALS*A V*PNRS/IDRSWIIWSVLFGLM V/AT/ALAPAFWLR*KKSFSA WNPTKSPRCLSNARPCCSLSKK ASLPWTIAARSR
17866	48234	A	17972	1	2121	
17867	48235	C	17973	1	1710	
17868	48236	A	17974	1	1335	
17869	48237	A	17975	1	1497	
17870	48238	A	17976	2	824	
17871	48239	A	17977	1	1965	
17872	48240	A	17978	1	3555	
17873	48241	B	17979	197	2021	
17874	48242	A	17980	1	348	
17875	48243	A	17981	1	891	
17876	48244	A	17982	1	679	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, /-possible nucleotide insertion)
17877	48245	A	17983	3	2502	EAIREVSNPIPQEEIWTHEREAVP PVQLLTGWCVTAKAPDISAIS ALTA VKHGNCSSLTPLLNPPTS DVI VCAEMDEQWGYVGA KSR QRWLFYAYDSL RKT VVAHVFG ERTMATLGRMLSLSPFDVVIV MTDGWPLYESRLKGK L HAILV TFEEKFQEEP VKKQIMVSISVS DTGGKKEPKLINLSSKTNGLQ NTTEAQLCETKSD FELSFGFN ISIDTEDMKTGCCFQEQSVRR YFKATSSPRRLIITKLTT RVDG YVADDP SRRYS GHGDL LWPNA GNSCVETT VGSLLCEVQAAPTP HTLEGKHGCRNK EKKRLTHSG ACTYTFSELGLEL WAWNCGKT EVNLGAVGKG VGGDRGFKKI AKSQFTCSVLYTFTIKQGISLTL WSKVMHILEHLKENSQ L TSIC TRYQRVFGPTWLHETIFCKVAL TATLLAELEKTS LQTFLDKIWI LGAQQHTGSQEPSQALLTCDPA WKKALRKV TQKGGAFFGVND LGSSLSPTTDL L YEEQRLTSLSG SWFPICV MVELT L RAGSSPGGR LYVEFDQAVTK EPRFLQYKHY WDGAVAGSSILRQDSFVAEAST TITRIESPSVPSRSTFLDDFSITQ QHRRHAGLSVMLS L IISPPVRGL CQERTLRDRFRERL MYLDLEY QSGYCRLRTAGSEM QMPDVL IFAHRSGLAGLFPGLDRRLVNA
17878	48246	A	17984	10	211	GSQSTIFTFAARWNLWANENT DTSISPLGVGEQRHCSSP* RFPD SDRCSPPWSPRSQQGNQSPQTW Q
17879	48247	A	17985	1	1725	
17880	48248	A	17986	1	379	
17881	48249	A	17987	3	273	
17882	48250	A	17988	3	1157	
17883	48251	A	17989	76	378	
17884	48252	A	17990	1527	2005	
17885	48253	A	17991	578	1312	
17886	48254	A	17992	1	1758	
17887	48255	A	17993	1	2433	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *~Stop codon, /~possible nucleotide deletion, ~possible nucleotide insertion)
17888	48256	A	17994	1	537	SQEELLQQALVAQLA/HSEQLE GVQLPEPDEPSARHALPANEPR VLNNGVVSNDRLNNLSWQ HIGYVSSSLHLDYRVSTTVRNV ILSGYFDSIGIYQAVSDRQQLV QQWLDILGIDKRTADAPFHSLS WGQQRLALIVRALVKHPTLLIL DEPLQGLDPLNRQLIRRFVDVLI
17889	48257	A	17995	1	536	
17890	48258	A	17996	1	1319	
17891	48259	C	17997	74	341	
17892	48260	A	17998	3	103	
17893	48261	A	17999	1	745	
17894	48262	A	18000	1	663	
17895	48263	A	18001	2	297	
17896	48264	A	18002	8	340	VPANLSAIALFRRESVTPLAAL AASPVCAGRFLVLLKNHRRDLP* ISVPVNSSNSARS LVWHSGRQ QIAPDWSSKDDFMRLGKPNRFS VLLLATWIR*STVIRRSPTFS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
17897	48265	A	18003	1	1341	MVHRFGIRVRFVALGFYQDVL PVRAHRHEWHGYVHLCAISQR QIDVSFARDATSHSSCPVTGVR FWGYPFAANKVVIAGFELEGET MTRPGLICAEGGLVMIVSLRS ELYDSYHEFTIRQRTVEIIEKAA NHLPAVVEMMTLHRCAINRHN FVRRVGPAGISTFFASSPDGVN AGFSTFRVVFTRQSRPLQRHS HADVQTATLLNTVNLEQKQA NAILSGLSDMIPNSSPESAPEIQL LQSRMILGKTIAELNLRDIVEQK YFPVIVGRGWRLTKEKPGELAI SWMHIPQLNGQDQQLTLTVGE NGHYTLEGEEFTVNGMVGQRL EKDGVALTADIKAKPGTQFVL SQRTELEAINALQETFTVSERSK ESGMLELTMTGDDPQLITRILN SIANNYLQQNIARQAAQDSQSL EFLQRQLP*TLKSNRPTPFSAA*/ DDMIPNSSPESAPEIQLLQSRMI LGKTIAELNLRDIVEQKYFPI/D GSRLGEINQRKTR*AGDQLDAY STTEWSGSATDTQVGENGHYT LEGEFTVNG/NGRPASGKRWR CADYRGH*GQDQQLTLTVGEN GHYTLEGEEFTVNGMVGQRL KDGVALTIADIKAKPGTQFVLS QRTELEAINALQETFTVSERSKE SGMLELTMTGDDPQLITRILNSI ANNYLQQNIARQAAQDSQSL FLQRQLPEVRSELDQRKKNSTFI
17898	48266	A	18004	414	893	VFAQHGLTVAAIAAHARDRWF VGRTAHANPPVRCSTDGSGRVP VTRYSGFVAAAIVLLTASPRGG ECSREAPLCSVSEYLLQSA YAPAPRCVLRVSPVSEDFVPV VPD*APPVEVALFLRLTPVAR PADGGWLLAAIRPDALTSIAIV VLAAAR
17899	48267	A	18005	432	1108	
17900	48268	B	18006	1	753	
17901	48269	A	18007	46	282	
17902	48270	A	18008	1	1201	
17903	48271	A	18009	1	618	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
17904	48272	A	18010	1	1045	MLCTKWDLKLEKNAGKNKN AYKWWGPANAPDEPHIEQLV GECRVMRQLKRLISRIAPSSSV MVVGESGTAIPVVSHEFKGGF ADIGVHYLDWTSRTTEKSSTKS HKDDFGYLEFEGGANFSWGEM YGFDDWENFYNGRHNKPGSEQ RYTFKNTNRIYLGDTGFNLYLH AYGTYGSANRVNFHDDMFLA GFGQF*PAGGW/WGSNPFPAK/ RYTRSKPYITGDNGYVAGWV AGYNFMGLGSEKFTLTNWNVEYE FDRDATYAADFLPLYDVDCQD NGNLEYDTSYQPEWKHNLFDH YLA VLYRFKDESGKEQFSGAV VKTREATPGKEIEAITRRMLDFS PRLKKLA
17905	48273	A	18011	228	430	YPRQHRQRADGSDRHR**/CWS A*IWANPTSNLPPCRFALTTRK RPILCAPPSRQSYAAWCRWEIRI A
17906	48274	A	18012	296	1178	
17907	48275	A	18013	1	1395	MPSDISLASCLRLATSRFLTDRH RQSDCMATNRIPIVDDDEDNVR RFETHCANNVRTALHLFADIHP DVVLMDIRMPMDGIKALKEM RSHETRTPVILMTAYAEVETAV EALRCGAFDYVIKPFDLDELNLI VQRALQLQSMKKKEIRHLHQL STSWQWGHILTNSPAMMDICK DTAKIALSQASVLISGESGTGKE LIARAIHYNRRRAKGAFIKVNC AALRESLLESELFGEHGLFER ANEGTLLLDIIGRM/PLVLQAIL RIHQEREFERIG/GHQTIK/VDIAS LLAPTRLQAMVKEGTFREDLFY RLNVIHLILPPLDRREDISLLA NHFLQKFSSNQDIIIDIPMA MSLLTAWSPGNIRELSNVIER AVVMNSGPIIFSEDLPPQIRQPV CNAGEVKTAPVGERNLKEEIKR VEKRIMEVLEQQEGNRTAL MLGISRRALMYKLQFYGIDPAD
17908	48276	A	18014	1	771	
17909	48277	A	18015	1	2154	
17910	48278	A	18016	859	1014	IKTGETHPGIGPSVM*RHSKAD LTHRHCGGIPEPQSVSFGSQH GGGQFPPL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
17911	48279	A	18017	1224	1520	SPLVNQ*GA*KFFSRGNLFPOG ETH*KTKGVPCWTRYPLDKRS DSAEIFKTPANASGRTSGSLGC AAQLEKVADGRDLDEKLAEG IGGSNKTSVWQG
17912	48280	B	18018	182	2392	
17913	48281	A	18019	72	266	
17914	48282	A	18020	600	914	PYRGSPRNHGQLCDHCSHRI.SE DPFVRYSNHCQSISNYRCDKPP VRPLSPLHQKTDKHHQRDPDRP FQWSAAPAHGRWRSGDS*ETP LHYAQPAGKLRWLWVNY
17915	48283	A	18021	1102	1171	LLGYGQQPPASNLLSEG*RSVV L*ISALRM*ALPPQKSSDAPNG WLPNRWPISSTHMR
17916	48284	A	18022	1	1279	
17917	48285	A	18023	1329	1403	
17918	48286	A	18024	442	918	
17919	48287	A	18025	3	1345	
17920	48288	B	18026	436	988	
17921	48289	A	18027	637	1086	
17922	48290	A	18028	1	321	
17923	48291	A	18029	1	845	
17924	48292	A	18030	298	581	GARAEARAGSGQGAGLVSSP VRWRGWSDKGAERPGGPLSPL REVSRAGPSG/HAARGQQPGRP RFPPPGPRPRRRCPCTRARPGG AAGGGPCL
17925	48293	C	18031	450	604	
17926	48294	A	18032	1279	2253	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,409,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
17927	48295	A	18033	1	1957	MAQFHVSHPPAEWPRHVLMLM ADSKNELQNMNTGQTCGRQT LKSKLQGWKNPGIQSDPGSQG HPRCLKTFPLVAQSQSTQERNHV MEKAVLKSQNWALIEEFITKIG WFPDYSKGKVKYLSPPKSSCTTV LQVTHFSLFHHPNPDELVSQIKV WSKHRLYQNNSEAFLEVOIPEP KCEVYSMRMTGRRQPGTAMD LNAGGSICNVPTLLHLTGESTF RDRQRVGAYLDIRGWYILVLV VDKEKLGIPGQKQNSKLLFGSE KLKQWVYVKNHAKESITQEAM GIWVGQQRKRQPLGYEERKLT NRKDIHIKNPSVCHHQRPKVD KTTKMGGKQSRKTGNSKNQST SPTLKESSSSPATEQSWTENDFD ELREEGFRSDYSELQEEVQNN GKEVKNFGKKLDEWITRITNAK KSLKDLMLKTKARELCDETS LSSQCNQLEERVSVMEDEMNIE KQEEKFREKIRKNEQSLQEIW DYMKRPNRLRIGVPESDGENGT KLENTLQDIIQENFPNLRQANI QIQEIQRTPQRYSLRRATPRHIIV RFTKVEMKEKMLRVAREKGRV THKGKPVRLTADLLAETLQAR RQDTHRLKIKDGGRTFKQMEN RKRQGLQS*SQIKQNLNQQRSK ETKAIT*W*RDQFNKKS
17928	48296	A	18034	1	2838	
17929	48297	A	18035	1	897	
17930	48298	A	18036	26	308	
17931	48299	A	18037	749	1020	
17932	48300	A	18038	1	1773	
17933	48301	A	18039	1	1890	
17934	48302	A	18040	1	756	
17935	48303	A	18041	399	660	CPPEAVMPRRHEPVWEMTGFF LPDVLSDSSDTSEGRFLHLET WAPFLCRCLSLRLIS*HHHQT GNSSPPVSASQHQSVDRDSL
17936	48304	A	18042	909	2005	
17937	48305	A	18043	1	490	
17938	48306	A	18044	104	775	
17939	48307	A	18045	170	451	
17940	48308	A	18046	1	207	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, /=possible nucleotide insertion)
17941	48309	A	18047	146	678	LGFLRLSEMPRKQGDYRTRIWK KFEDGLSNVLVIQLNKLIIICVM CLVRDCDVLKTYFHR*SGLLPI KDTSPFPTRVTQWGWKNDQ TFQGLLDTGSELTLPEDPKRHC GPPVKVGAYGGQVLHSHKWAPI YHFLSSHNCNGFCYISIANLPKK FGQNIKECLTNNRIVPFNCVQD
17942	48310	A	18048	270	1444	
17943	48311	A	18049	700	1062	
17944	48312	A	18050	3	1096	
17945	48313	A	18051	1	1500	
17946	48314	A	18052	1	6215	MEDNLISINKIKILLAVSDGEIDE TFSLKQLMFNSVPVQNEGDGSFN FEGVKAEFPGTQTQEYIKGME DSSSEVTVNREVTDDNPYTISVT NKTLSAIRIKMFMPRGVRIESN GDKNGVRVEYEVQQAVDGGSF ETVLTDVIEGKTMSGYDRSRRV NLPFNFNQVIFRVVRKTPDSND SNVVDIAQVRSYAEVIDAKFRY PLTGLLFVEFDSKMFPNQLPTIS IRKRWKIVNVPSNYDPESRTYN GNWDGTFKKA
17947	48315	A	18053	1325	1417	
17948	48316	A	18054	1	4971	
17949	48317	A	18055	251	1091	
17950	48318	A	18056	1	2277	
17951	48319	A	18057	2	448	KNDKGDIIVTTKSGGRGTSTVS FKLLKPEKI/GSKFSQKDEMLF HGMRAFTSENFSAAWYLIEN HSNTSFEQLKMAVTNLKRQAN KKSEGLAYVKGGLSTFFEAQD ALSAIHQKLEADGTEKVEGSM TKLENVLNRSNTADTVYE
17952	48320	A	18058	124	984	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /possible nucleotide deletion, √possible nucleotide insertion)
17953	48321	A	18059	142	1393	DKKPGMVP PPPGEE SQT VIL PP GWQSYLSPQGR RY VNTT TNE TTWERPSSSPGIPASPGSHRSSLP PTVNGYHASGTPAHP PETAHM SGRKSTGDSQNLGSSSPSKKQS KENTITINC VT FPHPD TMPEQQL LKPT EWSYCDYFWADK KDPQG NGTVAGFELL LQKQLKGKQMQ KEMSEFIRERIKIEEDYAKNLAK LSQNSLASQEEGSLGEA WAQV KKSLADEAEVHLKFSAKLHSEV EKPLMNFRENFKDMKKCDHH IADLRKQLASRYASVEKARKAL TERQRDLEMK TQQL EIKLSNKT EEDIKKARRKSTQAGDDL MRC VDLYNQAQSKWFEEMVTTTLE LERLEVERVEMIRQHL CQYTQL RHETDMFNQSTVEPVDQLLRK VDPAKDRELWVREHKTGNIRP VDMEI
17954	48322	A	18060	1	435	
17955	48323	A	18061	3	926	
17956	48324	A	18062	3	693	RPFLAYLRDGDARAGLNLQL AVLAMLSSRKMFCKKSGQSYS PSRVLITENDVKEGLQRSHILYD RAGEEHYNCSALHKS MRGSD QNASLYWLARMLEGGEDPLYV ARRLVRFA/SEDIGLADPSALTQ AVAA YQGCHFCMPECEELLA QC VVYFARAPK SIEVYSAYNN VKACLRNHQGPLPPVPLHLRN APTRLMKDLGYGKGKYNPM YSEPDQEYLP EELRGVD
17957	48325	B	18063	1	2020	
17958	48326	A	18064	19	404	
17959	48327	A	18065	1	407	FRATITSAKMGA YKI QELWR KKQADV MRLLRVRCWQYRQ LYALHRAPRPTRADKARRLGY NDKQGYVIYJRVRGRGRKRPD PKGATY GKP VHHGDNQLKIAR SLQSDAE E PAGR HCGALREQSS Y*VGEHST
17960	48328	A	18066	53	431	AKKGAYNYIQLWRKKRADV MRFLLRVRCWQYRQLSALHRA PRPTRDPKARRLGYKAKQGYVI YKIRVRRGGRKRPV PKGATYG KPVHGGANQLKSAQSLQTGVQ ERP GHP*YAMRV LKAYRARP
17961	48329	A	18067	5	328	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17962	48330	A	18068	93	836	AKMGAYKYIHLEWRKKQSDV MRLLRARCWQYPALHRAGTE WQLSALHRAPRTPRDKARRL GYKQAKQGYVIYRIRVRRYI*D SCSPWWLKTAAQFPKGCNFTGK PVHSWVFNQLKSFASKAFQFR WQEGGEAWDGTGGLLEEFNLN FFNWVWV/GKIST*QNFFEGLLIL I/VIPFHS*SEENPDTQWDQPN QSHKHRIEMRGLTSAPEKSRG L/GKKGHKFFHTIGG/SLRRAT WRRRNTLQAPPLPLI
17963	48331	A	18069	1495	2055	
17964	48332	B	18070	125	2530	
17965	48333	A	18071	345	800	RWRLQNLSCSSCSGSGSEGAT CFARGR*RPPGNSLNVSRMCTR SSYSCRRHSPAFLSWGKGRCHL CNKAHLLAGA*HYSFLSGSAPY *N*VNGQI**R*TAHRSTPDAPT GH*NCCS*L*CHSY*QRA*PGY RHD*CRMCC*CADCSHAC
17966	48334	A	18072	181	1687	
17967	48335	A	18074	205	1734	
17968	48336	A	18075	1	705	
17969	48337	A	18076	590	685	
17970	48338	B	18077	1	881	
17971	48339	A	18078	1043	1248	ITLGIMAIFTVLPIPIHEHGMVFH LFVSSFISLSSGL*FSLKRSFTSL VSWIPKYFILFEAVVNGSSL
17972	48340	B	18079	1	1977	
17973	48341	A	18080	805	1153	AWKVLPPFVSFCFLSSGL*FSL KRSFTSLVSWIPRYFILFEAIVN GSSLMIWLSVCLLLVYKNACDF CTLILYPETLLKLLISLRRFELLF LSMFSASFRSSCKAGLVVAESL
17974	48342	A	18081	471	1442	IWSFHIVPYFLEALFV*GVRKGS SFSFLHMAQFSQHLLSRESF PHCLFFSGLSKTR
17975	48343	A	18082	188	355	
17976	48344	B	18083	1	1677	
17977	48345	C	18084	35	1816	
17978	48346	A	18085	557	724	
17979	48347	A	18086	179	346	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17980	48348	A	18087	135	1461	INRIYILLSTTSHLFQN*PHSWK*STPQQM*KNRNRYNKLRLRPQC NQTRTQDEETHSKSLNYMETE QPAPE*LLGT*QNEGRNKDVL* NQREQRHNIPESLGH1*SNC*QD **RRKERRIK*MQ*KC*RCNKN AKGVITTDPTIEQTTIREYHKHL YANKLENLEDTKFLDTYTLPR LNQEEVESLNRPTGSEIEAIINS LPTKKRPGPDGFTAIFYQRYKE EQRIKYLGIQLTRDVKDLFKEN YKPLLNEIKEDTNKWKNI PCSW IGRINIMKMAILPKVIYGFNAIPI KLPRTFFTELEKILKFI RNQKR ARIAKTILSKKNAGGIMLPDFK LYYKATVTKTAWYWFQNRDID QWNRTASEITPHIYNHLIFDKP EKNKKWGDLSFNKWCWENW LAICRKLKLDPLIPYTKINSRW IKDLNVRPKTIKSLLENLGPFR
17981	48349	B	18088	1	2016	
17982	48350	A	18089	659	826	
17983	48351	A	18090	3531	3878	
17984	48352	C	18091	1	2793	
17985	48353	A	18092	1607	1774	
17986	48354	B	18093	1	1666	
17987	48355	A	18094	1	1068	
17988	48356	B	18095	1	1549	
17989	48357	A	18096	557	623	KKWINYWTHTPSQD*TRKKNLP
17990	48358	B	18097	1	1231	
17991	48359	A	18098	263	1461	GGSSCYPSEWATIRTAKMVTLR KRTLKVLTLFVLFIPLTSFFLNY SHTM/VATTWFPKQMVLESEN LKRLIKHRPCTCTHCIGQRKLS AWFDERFNQTMQPLLT AQNAL LEDDTYRWWSLESVMFSVTM GFCLQRPFGDKQGTTPQVYINQ TGRDLTQQQLRQREKPKNNLN DTIKELFRVVPGNVDPMLEKRS VGCRRCAVVGNSGNLRESFYG PEIDSHDFVLRMNKAPTAGEA DVGTKTTHHLVYPSFRELGDN VSMILVPFKTIDLEWVVSATITG TISHTYIPVPAKIRVKQDKILYH PAFIKYVFDNWLQGHGRYPST GILSVIFSMHVCDEVLDYGFGA DSKGNWHHYWENNPSAGAFR KTGVDHADFESNVTATLASINK IRIFKGR
17992	48360	B	18099	1	4855	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
17993	48361	A	18100	571	4189	FSLKRSSTSLVSWIPRYFILFEAI VNGSSLMIVLSV*AKILVQRA* VLAFFHPS*LRFKDQVVVDMW HYF
17994	48362	A	18101	7449	7626	SFRSRLFSFHVVELF*VSFLILSS SLIALWSEKQSVIISVLLYFLRS AFLPTMWSILE
17995	48363	A	18102	63	329	SGQRRKEVPSPTLPAPPFILKKK EWPDPPRSFFSGGHWAKSSCPS DCSSQLMAC*/CKNAKHQKDN SCL/STHMKGNSEK*NSGYQ GLG
17996	48364	A	18103	2	618	GAFLLLEVATAAGLSAGLTRLGS QVGGAMRRSKADVERIASVQ GSTPTLQKSMKGFYFAKLYYE AKEYDLAKKYICTYINVQERDP KAHRFLGLLYELEENTEKAVEC YRRSVELNPTQKDLVLKIAKLL CKNDVTDGRAKYWVERAAKL FPGSPAIFYKLKN/DGWVRGQM VPKPDDEGVQVRGRSGRPDAG WRLNRRSSVGGSAW
17997	48365	A	18104	1	995	
17998	48366	A	18105	1	513	
17999	48367	A	18106	62	521	
18000	48368	A	18107	1	375	
18001	48369	A	18108	76	480	LVKVCHCTYHHFLTGVVSLPR DGGKGAPCWGRARSPKSALLP YLAPGRG*VTYEVQN/PNGTS PVQSPATDVGRSPALGNQEP/G T*SPGPQIGRGVITGTARPHGT SRDSWRRPPSFILNAVANIPKGN APIPKE
18002	48370	A	18109	445	1128	
18003	48371	A	18110	784	1189	IPLGKLLLPKVPAGQIERFPFQIP VPLCSLSFPSPSSSSARS*VRQ ES*LGTGPGAPTGP/TSHHPSAS SPPHPSAKAAFLSFVCLCS*PPP SSCHPCGLGPGDPSPQKMMICT VAHLNQLSLIFTVVKVHLL
18004	48372	A	18111	1	2088	
18005	48373	C	18112	169	213	
18006	48374	A	18113	1145	1229	
18007	48375	A	18114	1	975	
18008	48376	A	18115	1	750	
18009	48377	A	18116	288	368	
18010	48378	A	18117	34	168	
18011	48379	A	18118	479	1579	
18012	48380	A	18119	2279	2398	SDCSCPL*GPPGRWHKRRKSG SPHLSTPEGTALTSQA
18013	48381	A	18120	21	190	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=-possible nucleotide deletion, \=-possible nucleotide insertion)
18014	48382	A	18121	1	1773	
18015	48383	A	18122	18	290	VAGTWPNFLKKVGVGVKYGTR YGASLRKMKVKKIEISQHAKYTC SFCGITKMKRRAVGIWHCGSC MKTAVAGGAWTYK*V*FLVVF SVWTT
18016	48384	C	18123	325	486	
18017	48385	A	18124	1	498	
18018	48386	A	18125	3	306	RQEIDSIHQGVGYCLALVPANT LPKTPLGHHISQTKQLFLEGS HPCNLMCPHTCVTNLKPQRQK QP/WCRPFCRDGWESGCWKTY STSCWKGSGTNRRE
18019	48387	A	18126	1	1197	
18020	48388	A	18127	1	390	NSRVDDFVAPGLSEAGKLLGLE FPERQLAAAVG/CSPMSGVIS MSAPFPLGKIIDAIYTNPTVDYS DNLTRLCLGLSGVFLCGAAAN AIRVYLMQTSRQRVVKRLRTSL FSSILGQEVAFSDKAGTGELI
18021	48389	A	18128	1	695	SGFMDHLEEKADLSELVEKEEL GFFQYRYRERCHQKVYHPITKPG GSAKDAAPGGGHHQAGPGQG GDEGIRMMFCVSPNRAFTVVS VVPVLSIIDVIYGRYLRLTKVT QDSLAQATQLAEERIGNVK/TV RAFGKEMTEIEKYPSKVDHVM QKARKEAFARAEGVILNEKSFQ GALEFKNVHFAYPARPEVPIFQ DFLSLIPSGSVTALVGPSSGSKS TVLSLLRLLYDPAS
18022	48390	A	18129	1	2136	
18023	48391	A	18130	1	822	
18024	48392	A	18131	257	388	
18025	48393	A	18132	1	765	MVNALSLAARIHAEPVPADESPE MTEGYEGFYHLASMKGTVERA DMHYIIRDFDRKQFEARKRKM MEIAKKVGKGLHPDCYIELVIE DSYYNMREKVVEHPHILDIAQQ AMRDCDIEPELKPIRGGTDGAQ LSFMGLPCPNLFTGGYNYHA/P SPKFSAVSAMLLASASSAGRCG ESIFSPLAYTSSPIESDSCGPAL* RFLRH*/P/EIFLTQPVF/SENEAID IWN/SPTASVSPLMPSRQNAVRE LFLLTVRPRPTGTD

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
18026	48394	A	18133	1	1166	LTHWVYHLYGIQRILIHIPSTSQ PNRVRGDIPPLQRIVVPTVIVQ PRLIMLLPWQTVRLVQVMRV LLIKLVAPFIILPAPRRJAVFADE RQRQAPVVAVVKMNFSSRCVF RLHLSGQLLHRQPALRKPRPAF TAHAVCPDFFLQPVPQQPHQFSR EHHAVAVLTPFLLERLCQAAPL RFFPLAVLCDDPDERREASRLV YRLDTGCVSLHRRQPVSVPAIS LALPMLAILVVQTFMALYAI VTWRMMGKNYDAVLAAGH CGFGLGATPTAIANMQAITERF GPSHMAFLVVPVMVGAFFIDIVN ALVIKLYLMLPIFAG*PMKRR* K/SPPQQRQMPDTRLSSVPSA SSVLGGLPVVGNVREYGVPGA ELPGSSPDRAVNPPL
18027	48395	A	18134	48	314	LVPMTWVIEASYSIMRKKVGE HPHFLDIAHQAMRDCDIEPELN PIRGGTGDAQLSFMGLPCPNLF TGGYNMVMMSL*LWKVWKK RCR
18028	48396	B	18135	83	3044	
18029	48397	A	18136	1	1080	
18030	48398	A	18137	3	979	DAWADAWSKKADVKEVNPID TKEKKPEAKKVDAGGKVKKG NLKA/KKPKKGKPHCS/RNCP CKKEIGRNSRSGMYSRK/AMYK RKVYSAAKSKIVEKK/KEKVLA TVTKPGV/GDKNRR*PGVVKL QKCPRYYP/SLEDVPRKACL SH GKKTPLVQHVEKNCEASIPRG PF*FILTGRHRGK/RVGFPESSL AKLAYLLC*LGPLVLKSEVPL/R RTHQKFCHLPLSTKINDISN/VKI PKHLTGCLSRKKLRK/PRHQ EGEIFDTEKEKYEN/TEQRKIDQ KAVDSQILPKIAIPQLQGYLRS VFALTNGIYPHKLVLVNLKNP
18031	48399	A	18138	858	1418	
18032	48400	A	18139	97	516	
18033	48401	A	18140	1	219	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, /-possible nucleotide insertion)
18034	48402	A	18141	110	768	NLFSGCVSETRFKQPAHQRRSR ARAETMQRRLLVQQWSVAVFL SYAVPSCGRSVSEGLSRRL/LKLP MRPKNVHVPTKVTYKRAVSE HQLLHDKGKSIQDLRRRFFLHH LIAEIHAEIRATSEVSPNSKPS NTKNHPVRFSDDEGRYLTQE TNKVETYEQPLKTPGKKKKG KPKGRKEQEKRRRTRSAWLD SGVTGSGLEGDHLSDTSTTSLE
18035	48403	A	18142	338	661	
18036	48404	A	18143	443	661	
18037	48405	A	18144	474	531	
18038	48406	A	18145	208	317	
18039	48407	A	18146	1	807	
18040	48408	A	18147	1	1122	
18041	48409	A	18148	283	2204	ASPMAPTSLCVPPTLLPSLNQTS SSTAPTGKASGWPMRLRPGL TTPWLSLTL*SRPTFTSSPC SFVVLASPTSLKCWPLSEGA
18042	48410	A	18149	208	1212	
18043	48411	A	18150	202	1677	
18044	48412	A	18151	1	3285	
18045	48413	A	18152	3	2206	
18046	48414	A	18153	1	1041	
18047	48415	A	18154	2	1460	
18048	48416	A	18155	1	792	
18049	48417	A	18156	51	362	AHGAAWPSHRKDRESADLGSD GQNGQDLDWGGGCRCC*RC DVLWCWAPHTFRHSYAMHML YAGIPLKVLQSLLLGQAPCRG LGQNVGTALPLVSGGPMLFP
18050	48418	A	18157	609	690	
18051	48419	A	18158	1	2055	
18052	48420	A	18159	3	2236	
18053	48421	B	18160	406	454	
18054	48422	A	18161	1	2151	
18055	48423	B	18162	1	1215	
18056	48424	A	18163	1	594	
18057	48425	B	18164	1	1380	
18058	48426	A	18165	441	692	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, \ =possible nucleotide insertion)
18059	48427	A	18166	2	1311	QHVRSTVTLELWTFGNFVNSIQTA FAAGIGWLITFCCKGGDCILTSQ TRLRLSGMLFLNSLDAKEIYLE VIHNLDPDFELLSANTLEDRLAH HRWLLFFHFGKNENSNDPELK KLKTLKNDHIQVDRFGCSSAP DICSNLVVFQPSLAVFKGGQGTK EYEIHHGKKILYDILAFKESVN SHVITLGPQNFANDKEPWL DFFAPWCPPCRALPELRRASN LLYGQLKFGTLDCTVHEGLCN MYNIQAYPTTVFVFNQSNIEYE GHHSAEQILEFIKDLMNPSGGS LTPTTFIELVTQRKHTEVRI/V*F HCPGWPPWPRLLWPMACKPRNL LP*SSRPLNT*SSLFCSSNQPDLR GPLLHRPLSLPRRYRGAQVPNP DFGHYSVSPSLHGLHQCShLFS HSPPPRVLRPPRILTTSTGLPPSP RRSATDVHTAYPPTAD
18060	48428	A	18167	1	924	
18061	48429	A	18168	10	1254	
18062	48430	A	18169	1	618	
18063	48431	A	18170	1	460	MAAPMTPAARPEDYEALNAA LADVPELARLLEIDPYLKPYAV DFQRRMFWMFLPFFTLAFSPSV LVRFHADKDIPETGQFTKGRG LLDLQFQVAEDASQSWQKLYL LPNCSGQPHQKLVPTAQKFYIT VEWGTFFSVPGQVVGSEGSQM SVTVEGSESEDDKMYMTCCS ALLDSFALC**RHT*DWAYKR KRFIGLTVPMWLMRPNHGRS CISCLIALANHTKNWFPQRRSFI SQWNGVLFSQCLAKLWALKEV RCQ
18064	48432	A	18171	1	582	
18065	48433	A	18172	1	1578	
18066	48434	A	18173	1	1293	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18067	48435	A	18174	344	1358	EAQSVTNHKNRSDCTFKEDNSL PVRKPSFLITNPGSNQGPFRFAGS PLGHEFTSLVALLWTGHIHPSK EAQSLLEQIRHIDGDFEFETYYS LSCHNCPDVVQALNLM SVLNP RIKHTAIDGGTFQNEITDRNVM GVPAVFVNGKEFGQGRMTLTEI VAKIDTGAEKRAAEESARKGIR TGLMGERFGGQILDVTDIENYIS VPKTEGQKLAGALKVHVDEYD VDVIDSTGRSS/AISGFHFTYDS NSPTARCAPT*QNCAPSPSGEY APGEKAMRRITLVWRHCDY/PL CNAGNFVSMISRATSNITATMII *GVCTDNTRLCLYALNCSGDIL SRTSCD
18068	48436	A	18175	I	1561	
18069	48437	A	18176	884	1171	PRRLNNEHDKRLMSWLHCLVP HHAKWLQRWQWSAKVV*FA *IRAVNFVTAIRAIHYQQSRKQ HRYLRSACHGRSIIITVITQSPTK SSATKMPEN
18070	48438	A	18177	274	416	QADDDADNQSQDGTDAAFGALI Y/CESDDLC*LPLPALCPLCVM WYQTM
18071	48439	C	18178	24	509	
18072	48440	A	18179	1	1932	
18073	48441	A	18180	1	2583	
18074	48442	A	18181	1	495	
18075	48443	A	18182	36	798	KQRHSCFWSCWFSRAG*LGE LV*NPEIA*RP RPQQQTVSGNG AWSGKAPRRRHSWHY/YTISFQ KLPLVECTNAGPIF*YAKAGRK CSIKPPLTSRSYITD*PVSLRSQ LTGR/AGNFVTGW/QQLDEEIR YTMRTTVNAQTRDRKGVQPP TTWIFNDTKDQLERRIARLETG MAWAEPPSRTRHLISNCQISET DIPNVFAVRVNYLLYRAQKER DETFYVGTFRFDKVRRLDDTG ASWNGNRTGSAGIISIT
18076	48444	A	18183	114	724	ARTRVPHFPFHETAGGAAAH HLSLLGQDPGNQTLPGGRGGI PGGRGGGGGGGGGGDGRRR ALRRQQVPVLCVQRAGPAMDA AAPRHSSPDRERPKDQEVHLRL PGHASHSPHLGRHAGQPAGPA GLWQAPGLRHHLHAGIQPPE/V TNTTLTALT*TRRCPAFSSGTVK PLFIWNLAAGPPLLRKGAAASIV ICSCSIFQR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /possible nucleotide deletion, \possible nucleotide insertion)
18077	48445	A	18184	1	2130	
18078	48446	A	18185	2	433	EMTLDSRVAAAGDLFVAVVGH QADGRRYIPQAIAGQVAAIIAE AKDEATDGEIREMHGVPVYVLS QLNERLSALAGRIFYHEPSDNLR LVGVGTGTNGKTTTQLLAQWS QLL/GRNQRGNGHRW*RPAGES DPDRKYNRFGSRCSA
18079	48447	A	18186	114	586	SYITALGQFSRSGIQLDLRLGNF GTGWPNFDRKRFGSTMRRTVN GQTR/GPPQRRPAADNLD**H QRPAGAAANRPSGNGHGLGRRRA AVTHPSLNQQLPDKRNRHPKRI CCAGKLSALSGTKRSAMKHS LERVSTKFVWKMTTGACWN GISSWIKR
18080	48448	B	18187	1	3577	
18081	48449	A	18188	2	861	YHSINAASACSAHPVAFILTILT CRTCSSSLVATTSTMRLPNTLP DLIISPVESILSTSCAVPAFIRE PVTTSAPTIGVMANSVAVETAL PGLQEIPTRVQPSWRAVSSPAIT YGVRLAAMP/SHHILCR*INIF QIINTAFPAIFRAHFRVLNGIFSA SNQTNHQTRFHAVCGRTFGDV GWVAKSYQVAEERGSITEHQV QGHQSDDTEHFGGEIERQQQ HYHRQRGDPVGEIGEPELSISR RHHVCHTGYNPAEPVSPAGEIS NGTANGNKLNMSVCEIAP
18082	48450	A	18189	560	2021	
18083	48451	A	18190	525	804	GG*CRNWCDHYANGCRDTS LYDKLAELGPQGLSPR*NNWQ TARRNQSSGRNSCHLRREVE*R RLDKALRRIRQFSAPDEGAKCP WPGIICDSNHFAFLRCQYGRFL EVTSAGDEKPYPLVDHVGVLV VEQLRCIITAKVTRRHFFYYVLK SIHPAVAGLPAALRDCGELFNSV YCRKPATGPQLQADVMVVVAY GLILRKQCWCRCVLAVSTFMFT AATLARCCNTPLTRAGDAET GVTIMQMDVEIPVVRCTTSWQ SLAHKAYHHVETIGRRHGETR VQDETIVTYAEKLSKEERVLTG HFRQHSLNAALRFQSMANELA
18084	48452	A	18191	1	266	SQYPLVAGHEVIGRVVALGSA AQDKGLQVGRVGIQWTRASC G/QLRRLY*R*SDQLRARC GDY YESRWLCREVACGLAMGDST ARKY

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
18085	48453	A	18192	5	385	
18086	48454	A	18193	330	598	VMRFAIVVTGPAYGTQQA SFAQALADGHELSVFFYREG VYNANQLTSPASDEFDLVRA/S ATTECATWCQAEYLRSGSITPW RC
18087	48455	A	18194	1	2652	
18088	48456	A	18195	1171	2091	
18089	48457	A	18196	486	837	
18090	48458	A	18197	1	2943	MAIYKQSQHMTEVVRRCPHHE RCSDDSLAPQHLIRVEGNLR VEYLDNRNTRFRHSVVVPYEPPE VGSDCTTIHYNYMCNSSCMGG MNRRPILTIITLEDSSGNLLGRN SFEVRVCACPRDRRTEENLR KKGEPHIELPPGSTKRALPNNT SSSPQKKKPLDGEYFTLQIRGR ERFEMFRELNEALELKDAQAG KEPGGSAHSHSLKSKKGQSRL GTRFLCQPAVTVIPVKIVRVGT DTVIRPHAEGAVRVQLRVGQA VTCRVCGIRDADIQIRCGGVNA GQPAGGAVAVTPGLARAADAD EFAVVVPGQPFHGGQAVRYTA VRQPLRVGRMSGLMLAKTCFR LQVMHRLTLTVFSQKVFTESIE VVEALKVNLMRVFLRRMDLRQ HRKMIMIDNYIAYTGSMNMVD PRYFLRDALPHCPNLTGPTFA VLEKLGYPHTFVSTDFNTVALD VKTFGIKANDDKAKLKALGEIA HACVDAITIIYCKSPTVAGLVAR ELIKLGHGTPTENPHVYWSPL TVLACILARYRGHCSNTLATNS MLENCAFCSAPPRSLKESTLSL NTVVIYDNRDGTSLDKFNRFCI HAFPKIIRNAIYEVEQHT* RACRYQ* DVGWFNIIYQPGISLAASKH CSTSSR* RWI* LDWI/CASASLL DEATAAAEAMAMAKRVSKLK NANRFFVASDVHPQTLDLMSY
18091	48459	A	18198	643	776	
18092	48460	A	18199	1	1257	
18093	48461	A	18200	3	346	
18094	48462	A	18201	1120	1335	
18095	48463	A	18202	312	1108	
18096	48464	A	18203	1	744	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, /-possible nucleotide insertion)
18097	48465	A	18204	381	1112	GVEPSPTNPPTTAIPRATCVA AARAASPSPS*SHQPHPPPLAYD RCST*PTPTTTAGQDHDHGR WRSAPAPRSDHLSMDLQE/RSM SLLPLILSSSTRSGSNPLRSTFLSR SRSISKNCSEA*SV*SNNSAGVGTI STS/RSTYDINRADTQVRRAVN NYDIIHMSNSFNGQSEHQVWIG QQF/ILHQICPLTQFYGAEPDR KE*COAPASKWALLHK*HRPFP QDRKAGECLLHEYEDLYPSVIH
18098	48466	A	18205	2	307	HPARHKFVKGSSSEHRKSPVKPP PIPSH*PP*PENTNPMRPLAPTD VTNLRSLMTGRQRFTPYNNVS RSDPSTTARSSSADRVNASEYP TSSEETSGRSSR
18099	48467	B	18206	1	723	
18100	48468	C	18207	127	1410	
18101	48469	A	18208	1	1773	MGKKQSRKTGNSKNQASPPPP KERSSSPAMEQSWTDNDFDEL REEGFRSNYSSY*EIRIT*WQ TSLKALKRN*MM/ILLASPSR TPISGPNCDPAGPKFVKAAT GKARQRFHPATTTFHGRTPAPP LAHPAPTSTPASTQHPARRHQ VARPDRSSTPLPARIALRVFCPT PSTAPPEHPRQNPAPQTDSA LPGADDVRVSTTDPERRHPHPT NTTTPGGRVLRKELNRPRRPI HHRRRRRFHVQRAWQLPVPHRH HHLDHTSHTRRRRLMTDVRLD RPQPQRPPRITITTVGGDQRLRL DRSYQPESPCDGLRLQLQMAG RAPCSPLSMLVLEKCDNLKTCH TSHGSVMAETA VINHKKRKNS PRIVQSNDLTEAAYLSRDQKR MLYLFDVQIRKSDGTLQEHDI CEIHVAKYAEIFGLTSAEASKDI RQALKSFAGKEVVYRPEEDA GDEKQNAKNEIIGTSSLPQTQFK TDHMSQKDPHKEETSPKVP HLVQESQKDLHKEATNLKVP HHPGPKPQGPPEQGNKQRP PPGRPQGPPEQGNKQRP GKPOGPPPPQGGRRHRPPQGG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, /-possible nucleotide insertion)
18102	48470	A	18209	944	1577	RLCCLEISSTGYPKSSISSSKYPQ IPRAGAQCSQAV*SGSNPLRSTF LSRSRSISKNCSAEV*SNNSAGV GTISTS/GSTYDINRADTQVRRRA VNNYDIIVMCNSFNGQSEHQV WIGGQF/LHQICPLTQFYGAE PDRKE*QAPASK WALLHK*H RPFQDRKAGECLLHEYEDLVP IRDTRLRFPGGRYLPRAKHVAP SEPDPTHAYD
18103	48471	A	18210	3	634	DRVFDSSGSKWRSEQDWAAAK AVGQCSENGDWCCGNGRYP ARGPAVPA*PSLCLHHPR*RCT CCMPVYR
18104	48472	A	18211	3	255	
18105	48473	A	18212	101	547	TSVELMDLCPRLCRTFSGIPAY SMCIA*EWRNVCGVTGTENVT PSAAAAATASPIQVLTVLSVTS QIRAFSVLPVRRLRRSMLSRLIN TCRTEYPRCAVVCLLWKDAVS CLSTTFCARLCGQNTWLPRPCR HVNRAASDASVSLSTVT
18106	48474	B	18213	1	1113	
18107	48475	B	18214	220	1173	
18108	48476	A	18215	1	509	MPNHKAILIKFKKTEIIPITLLDH STIKIEINIKKIAQNHITWKLNN LLNLYFWPLTVSLCEMCKDFYS LGIEFSRFLQELQNKDCALEK/ HSHWAQMW*YPCPAKHWW CRREHVLVVN/DCSTS*NSYWH FSD*LRAMKRNRNEQCKR*AIRS LSRSLPARQDLKLLS
18109	48477	A	18216	3	281	
18110	48478	A	18217	878	1135	
18111	48479	C	18218	1	1602	
18112	48480	A	18219	33	608	VDSLRFQSPSCSVYSTDR*ISE T**NKL*PPKPVIACPKMWQV GQKFRQKAAATP*KAR*SPRPIP SH*QP*PKIQTRCGPQPQIRSP QKPHDRQTALSHRTTTFHGPTP APPLAHAPT*VSTPASTQHPAR RHQVARPDRSSTPLPARIALRVF CPTPSTAPPEHPRQNPAPQTD SALPGAVRG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
18113	48481	A	18220	3	893	NPRKRTEQGKAQNKVQWVLT RTPVMVQKRPTIVSLKSSPDSPL ETYSMFLFLGMWVGVGVEM/C SVKLEEFQVNTYHYQRILLGISS DNAILLEEESEGRPMHISTIKE PSPDSPILYLTNLKLLTSLILFH YGESWNLLRADQRLIFAKSWP RASRYQQGHQDLFILRSDLPSQ VFIRDKLMERRNRRTGRTEKAR IWEVTDRTVRTWIGEAVAAAA ADGVTFSPVPTPHTFRHSYAM HMLYAGIPLKVLQSLMGHKSIS STEYVTKVFALDVAAARHVQF AMPESDAVAMLKQLS
18114	48482	A	18221	1	327	LISLRQRQQRTPGKPGKGRPIP SPWPP*PENTNPMRPPSPTRSGH QPRSLMTGRQRFTTAQQRFTV RPQHHRSLIQRRCQQRQVPI QRGDIRSLVQIGHQRCLRG
18115	48483	B	18222	1	1419	
18116	48484	A	18223	1	2784	
18117	48485	A	18224	936	1157	RTSTGLSGCIRCG/CASEGGQAV FV/WPRGPPETPCSRCPAAEGSP G*SPPREDPSSGSPGKRQTCTQT SARSPS
18118	48486	B	18225	67	1314	
18119	48487	A	18226	302	1423	CRWRFRFIMPFVMSMSAECL MNYNSTAMSGKTLQNDITLI ARPWVKPYLGLIIMRIVGN*PH LTWCFCPTMYIPLFSQLCCPV FGQCGAFRNPGHPPSPNPEFFLG PRRCNPSLGHKALVQEAASDTP GKS/PGKSPGPPIKPIGP*PGK HKPDAAAPSHRSGSPNPEAS*PE DSAFTHNNVFTVRPQHHRSLI QRRPCQQRVPIQRGDIRSLRF GCFARHHPRHHRNIHDRTRTRP RRLTRHSRGLFEDDVRVSTDP ERRHPHTNTTTPGPGVRLRKE LNRPRRPIHLRRRRFHVQRAWQ LPVPHRHHHLDHTSHTRRLR MTDVRILDRPQQRPARITITAV GGDQRLRLDRITKPRARP
18120	48488	A	18227	1731	2392	
18121	48489	B	18228	1	1422	
18122	48490	B	18229	298	1464	
18123	48491	B	18230	1	1800	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=-possible nucleotide deletion, \=-possible nucleotide insertion)
18124	48492	A	18231	745	1250	HTQNQRSGRSQND*RRRKNIS ERSAVYR*RQLYIRRPYAERP SLR*RQRP*IPCIRSQHGNKRKIP RRRIFI*QSVLRRRHLLP*RKPE ASAERHKTRC*VSERRPRYHRV KYDYH*KSIYSR*AHGAA*PSH RKDRSADLGDGQNGQDLDC RGGCQPLLLTV
18125	48493	A	18232	1	1661	MAETAVINHKKRKNSPRIVQSN DLTEAAYSLSRDQKRMLYLF DQIRKSDGTLQEHGDCIEIHA KYAEIFGLTSAEASKDIRQALKS YAAKEVVLYRPEEDAGDEEGY ESFPWFIKRAHSPSRGLYSVHIN PYLIPFFIGLQNRFTQFRLSEKE ITNPYAMRLYESLCQYRKPDGS GIVSLKIDWIERYQLPQSYQRM PDFRRRFLQCINAGHEMTKAI AQFNDDSPARKITRRWRIGEA ADLVGVSSQAIRDAEKAGRLPH PDMEIRGRVEQVRGYTIEQINH MRDVFGLTRRAEDVFPPVIGV AAHKGGVYKTSVSVHLAQDLA LKGLRVLLVEGNDPQGTASMY HGWWPDLHIHAEDTLFPYLYGE KDDVTYAIKPTCWPGLDIIPSC ALHRIETELMGKFDEGLPTDP HLMRLAIETVAHDYDVVIDS APNLGIGTINVCAADVLIPTP AELFDYTSALQFFDMLRDLKLN VDLKGFEPPDVIFIRKLMERRNR RTGRTEKARIWEVTDRTVRTWI GEAVAAAAADGVTFSVPVTPH TFRHSYAMHMLYAGIPLKVLQ SLMG*YVHCALWMDCAHV** TKEIHSLLHRRHPLQGDKEPL PSPRNSSMPAVYPYWLPQRSIRI FQHI
18126	48494	A	18233	162	446	
18127	48495	B	18234	144	2537	
18128	48496	C	18235	1	873	
18129	48497	A	18236	700	1198	PFFGTDFFPWARWCILRHKFW SKGKQRTTKKAPVKPGGSPA1 DHP*PGKHKPDAAAPSPHRS PKTSMTGRQRFHTAQPFHGPT PAPPLAHPAPTSTPASTQHPA RRHQVARPDRSSTPLPARIALR VFCPTSTAPPEHPRQNPAPQ TDSALPGAARG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, /-possible nucleotide insertion)
18130	48498	A	18237	363	940	LQTVLQGYNSNENSMFVKQKGS PPGKPGKKKPCFWGAPKNGAD IPSQSWRPSGNPGTTPLPKPPSF FPGAPRMGQSQAWGHKGFWF KKGKPTPEPPGKKARVKKPPGG QSPKAIGPTRGPGKPPKPDMDRA PKPPTDSGHQTKQPS*PADSAFT PHINVSRSDDPRTTARSSSADRNVN ASEYPTSSEETSGRSSR
18131	48499	A	18238	861	1517	SLRPHLSGFYQARTL*DQRS*A DHE/DISKNCSEV*SNNSAGV GTISTS/RSTYDINRADTQVRRV VNNYDIIVMSNSFNGQSEHQV WIGGQF/ILHQICPLTQFYGAE PDRKE*CPAPASKWALLHK*H RPFQDRKAGECLLIEYEDLVP IRDTLRLFPGGRYLPRAKHVAP SEPDPEDQDEQLRFCKRHLYGQ QPRSPVEIRLQHVIAIYQTHHA
18132	48500	B	18239	1014	2337	
18133	48501	A	18240	1495	1947	IVTLCFPSYCLHCEAGP/LPCGH PWLWLC*VLGSPG*TRQTGSW AMPGVQASKPACG*KVAPAAR RVPHPLHMLPHSGHSAASGGA SCPLCRG*ATGSDQVLKHAFRK GRSSNCASNGTPPNADFLGQD VHPARHKLROKQSAPEPRKKAR
18134	48502	B	18241	1	2055	
18135	48503	A	18242	1	909	
18136	48504	B	18243	184	395	
18137	48505	A	18244	447	667	HRPRRRFIKPPQSQVPEHAPLPL PTASDPP/AHSRCPSESRLSPGG QRLGFPSVVLNCSKCSWQLAAC MGFSF
18138	48506	A	18245	265	890	
18139	48507	B	18246	1	551	
18140	48508	A	18247	407	636	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRVTE*QRAS*KR */ERDYISIMPKPDGLTAANKLA EAFEHYNECIRI
18141	48509	A	18248	1	1448	
18142	48510	A	18249	817	930	
18143	48511	B	18250	303	461	
18144	48512	A	18251	612	3359	
18145	48513	A	18252	1	462	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 9,540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18146	48514	A	18253	268	749	RGGIEYLLLVFILTTRTRFIQAV EHRNRGRRVAEKIVPELITHFM AEIRDLLQRTGVAL/W*HQSA YLPG*QICALA**IHPGVAAAGEY QRRSIQENGKVKQESGQTAS*M RG*MSVESRSGIAARCPESDAQ SGVVHRSRWQSLPARFGAGR DYREAS
18147	48515	A	18254	1793	2193	TQRIPAAQKQGSRCIVDSSAEA LSAALAIGNIELVKPSRTMS/DK AAQEIIVNSGKAKRVVVS LGPQ GALGVDS ENCIQVVPVVKVSQS TVGAGDS MVGAMTKLAENA SLEEMVRFGVAAGSAATLNQ TRLCSH
18148	48516	B	18255	1	1557	
18149	48517	A	18256	606	1123	QRDNPSGTDGGRNRAFGAGNI HTRGAAQAVRLVDSFPAQEK DPGESTGRDLSLPSRPQKVAY PVHRNDRR/ERLWFAAPSSPSN ATWGNAEWTLNFSSDSVTGA SSER*NLFLRLATVRCITLPSVS ADGAIVAALATHIGEAE LTES QCGAWRATFSSTCSLLPLNPN
18150	48518	A	18257	110	318	TALKLPLMSTKVTRCLSNLLK PKFNLPPLVQPPKMLPRHLSR *APNTKTSRVLLKN*PIPIPTRR KT
18151	48519	A	18258	2	3062	
18152	48520	A	18259	4435	4954	
18153	48521	A	18260	1	1959	
18154	48522	A	18261	2	715	
18155	48523	A	18262	1	756	MIRRVSVASGNEYMPRPASYIR TAPTVPSSSPAGTWFA GNAPA SSCGFRDRYLI VCSHQTPHVP KREEVNYETGIYWL RHYGTD YSRNAKQRLQRNNLAPILFTTT VPLGGRQYNNSQLPQRQSLE RIRHHTQAFTALIPHGAAGQGC GSGDLHYLSLEDVA VSSKATPD GSGVTRKASANLRVTIQIGGFQ LRTC GFGPSCRGCHPALQISRAL AVAAHQQAADNNMEFANYGP FELLQARQLIES
18156	48524	A	18263	1	799	
18157	48525	A	18264	1	270	
18158	48526	A	18265	2	188	LGFFQRPLFGGQELSKL*EQVL LAPEEVGHLGEHLFRHASEWP APRVQLLLLVVRVQDLQE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
18159	48527	A	18266	2791	3274	SKIFPRHDDLLWRSHRNGDDL RTAGMNAFKQRLTLGLFKITIL TANDYLEADGQ/RSVRKKYPQ AQVSRVAGADLWEELMARAG KE/GTPVFLVGGEPEVLAQTEA KLVRSSATSIAWPLLPICAISS WIRSTAFCCCSWVSEGGKPADRS PAPSRTWLRC
18160	48528	A	18267	202	627	
18161	48529	A	18268	1	2390	
18162	48530	A	18269	1081	1911	
18163	48531	A	18270	86	272	
18164	48532	A	18271	674	2808	FILKLRTRRR*RHRLRPWELFQ TARNAEVMKA/LVRHLWLEVK GVDLGRFPERRYGSDDKPDRLNP MELTDVADLLKSVEFAVFAGP ANDPKGRVAALRVPGGASLTK KQIDEYGNFVKIYGAKGLAYIK VNERAKGLEGINSPVAKFLNAE IIEDILDRTAAGDGMIFFGADN KKIVADAMGALRLKVGKDLGL TDESKWAPLWVIDPFMFEDDG EGGLTAMHHPFTSPKDMTAAE LKAAPENAVATLGDPLESPDDG LHNRISTHGCFFVLCGISTNIGV ESTARNAWELGFNLVIAEDACS AASAEQHNNNSINHIYPRIARRG RDPQVRVMYIGLPQWSHPKWV RLGITSLEEYARHFNCEVGNNTT LYALPKPEVVLRWREQTTDDF RFCFKPATISHQAALRHCDL VTEFLTRMSPLAPRIGQYWLQL PATFGPRELPALWHFLDSLPGE FNYGVEVRHPQFFAKGEEQTL NRGLHQRGVNRVILDSHPVHA ARPHRKLGGTAVWEWEPEGA HWVGDEPGWFSSGDLKAEY WAQKAADSGDADACALLAQIK ITNPVSLDYPQAKVLAEKAAQA GSKEGEVTLAHILVNTQAGKPD YPKAISLLENASEDLENDASVD AQMLLGLIYANGVGIKADDDK ATWYFKRSSAISRTGYSEYWA GMMFLNGEEGFIEKNKQKALH
18165	48533	A	18272	532	2103	
18166	48534	B	18273	1	4401	
18167	48535	A	18274	343	765	
18168	48536	A	18275	447	709	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18169	48537	A	18276	1	1571	MIEVKIILKTLQALRNCGSLAA AAATLHQQTQSALSHQFSDLEQR LGFRLLFVRKSQLRFTTPQGEILL QLANQVLQJISQALQACNEPQQ TRLRIAIECHSCIQWLTPALENF HKNNWPQYSVIFKSGVTFDPHFF FQQGELDPERAFDDFGIKPMAS ASIAQVHSARFNSNGHEVVIK IRAETLPVIKADLKLIYRLARW DAAFAAGWSPPAANLSCAGST KIHRLMNRTCCRNLPPTFSFGA KPGLYLVEAMVGGYRATTVVV VSDTVALS KVS GIELLVWGAG KKQGEANAGSEILWTDGLGVVM TRGVTDSDGTLQLQHISPERSYI LGTLAMVQLREDMAKRQAAGI IAPRSGRRMHRTHQKPPMTTE MGPRAVLREDTIPFLEALKASG KQRILLTNAHPHNLAVKLEHTG LDAHLDLLSTHTFGYPKEDQR LWHAVA EATGLKAERTLFIDDS EGDAMKEKPAVEVRLDKWLW AAR/SL*NPRAG*ND*RR*GAL QRAAHEAEQNRRAECHASAP
18170	48538	A	18277	2080	2274	RFQVVYFDHEKPSLRHE*FALE EYTGTRN*GCVNLLDR*KPPF KFMERWLAFSPGTLLESSRG
18171	48539	B	18278	1	3126	
18172	48540	A	18279	1	341	MLDRLESEILADRVSEESRRWL ASCGLTVEQMOMQMDPVYTPA RKIHLHYCHDRGLPLALISKEG TTEWCAEYD/GMGQPAE*REPA SAAAAYPAGAAV**GVRPVL QPPPLL
18173	48541	A	18280	945	1484	
18174	48542	A	18281	965	1403	
18175	48543	A	18282	703	1149	
18176	48544	A	18283	161	476	LLPWRSCILRSDPLAAHPVI/LV P*ACIFIARNCYPRPSCDSACKL RRESCG*FG*TRMVSAQATFSIQ ITSA/LPFCHELPKGRSGDFDTG EDNALSGQRPEFRHG
18177	48545	A	18284	1	443	MLSEPALRELATAIAGVRKGEN DIAVENIIGANIFNIVVLGLPALI TPGEIDPLAYSRDYSVMMLQAG KEVLAIERECLAELDQYINQNF TLACEKMFWCCKGVVVMGMGM KS/RAILGEKWPRNVQHRJAN HENRDSIRKICCYHR
18178	48546	A	18285	3	550	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18179	48547	A	18286	2157	2504	LVSLAGAAAYRSPQDPVPYMPIS PGLDWVRQIVCCVMASDAD** RVPRQNALLPVCTSGPYHALA TGCGRFRGQMLKTTVLPRHYK LYLGASSGMRYSTPATALMPLP LPHLAER
18180	48548	A	18287	1	621	
18181	48549	A	18288	1	423	
18182	48550	B	18289	1	1551	
18183	48551	A	18290	1171	2757	
18184	48552	A	18291	347	690	
18185	48553	B	18292	1	528	
18186	48554	A	18293	1	1417	
18187	48555	A	18294	292	699	
18188	48556	A	18295	859	1377	
18189	48557	A	18296	1	3036	
18190	48558	A	18297	1	942	
18191	48559	A	18298	1	2124	
18192	48560	A	18299	1955	2797	GGISIDRS GDH*GRGA VYHVAG R*NAGRTAEYFASRPTCG/RW LVAAVQGAATARISTIE MSVW AQL*QMCGRKIRAT/ISLPEATA QVISSGSGATKVEDGLGLDNKP VSNQNLVTGIDTPVYNAPSAGS APFGVLADNMRYPIHLKLKDR LNQTWYQIRIGDRLAYISALDA QPDNGLSVLTYHHILRDEENTR FRHTSTTTSVRAFNNQMAWL R DRGYATLSMVQLEGYVKNKIN LPARAVVITFDDGLKSVSR YAY PVLKQYGMKATAFIVTTRIKRV
18193	48561	A	18300	1	1191	
18194	48562	A	18301	1	298	MPVVFTVFFLWFP SGLVLYIV SNLPRYAEYLT VKDADGSVLD QGIALWFP/GPNSFTGEDVLELQ GHGGPVILDLLIRILTVCLRI ARPACSPRSL
18195	48563	A	18302	1	1011	
18196	48564	A	18303	1	1845	
18197	48565	A	18304	1	755	MSPVIDKMYVDAYQPFSEEEKIS MQEAELEKGAQPLREFMLRQTR EADLGLFARLANTGPLQGPEAV PMRILLPAYVTSELKTAFIGFT IFIPFLIIDLVIASVLMALGMMM VPPATIALPFKMLFVLVDGWQ LLVALVTGLIISILQAATQINEM TLSFIPKIIA VFIAIIIGPWMLNL LLDYVRTLTFLNPPYIIGRTMLQ VTSEQ/CAILVKPVLAVTARA GADLHRADSSERTQRTKTGGGF CRYWAG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \=possible nucleotide insertion)
18198	48566	A	18305	1	1977	
18199	48567	A	18306	1	630	
18200	48568	A	18307	1715	1996	LFRLLKLTGRRKRSNKS WITTCRGFWGTWCAGWSRP*VVQK CRIYTMWR*WQHAQR*VSPAT LNLGMLITISRKNPHTRK.GAGK HCPFSGPS
18201	48569	A	18308	517	675	
18202	48570	A	18309	480	626	
18203	48571	A	18310	757	1146	
18204	48572	A	18311	318	724	
18205	48573	A	18312	1	1743	
18206	48574	A	18313	1	1197	
18207	48575	A	18314	161	613	LLRQGFIVISAGGKRV EGQIKLVFPAKFEAGFRHGVIANLRLYPF PEEKIGEMATAPLSTSGDCRT* YALIGIQ/PTDGDARGSPRYKPA LALLPACVGS AKSTPHGRTPIPA IYVPSPT*FRALASDSVAQT*Y CRPASQTRRASPARSL
18208	48576	A	18315	177	425	SRYFSATSTWPLVMSIPVTC PFS PASWLST*QSLPLPLPRSKI QQFCRCSGITRPQP*YDPKSSS FVD AQGSPDHSNHLGLLLRVH FAR LPECAWGPALW
18209	48577	A	18316	1	576	ADSSKKIADIHSVIDGIAFQ TNILALNAAVEAARAGEQGRG FAVVAGEVRNLASRAQA AKEIKALIEDSVSRVDTGS VLVESAGETMNNIVNAVTR VTDIMGEIASASDEQSRGID QVALAVSEMDRVTQ QNASLVQESAAAAAALEEQAS RLTQAVPRSVWQPAHSPINRK HHPVLPIATGALMPGCGS
18210	48578	A	18317	121	1819	
18211	48579	A	18318	1	2151	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, /-possible nucleotide insertion)
18212	48580	A	18319	3	1127	GTPYASQPVIRPVEGSKPLIKQV LDIGAHTDKTIAQKLARVAR MHFARQLAAVATFACSAQNA IALMEEIAANFSYEMIRL.TECIL GFTWNRL.YQGINVHNAERVRQ LAHDGHEL.VYVPCRSHMDYL LLSYVL.YHQGLVPPHIAAGINL NFWPAGPIFRRLGAFFIRRTFKG NKLYSTVFREYLGELFSRGYSV EYFVEGGRSR/GRLLDPKTGM LRGGTRPTLPIYIGYEHVMEV GTYAKELRGATKEKESLPQML RGLSKLRNLGGQYVNFGEPM LMTYLNQHVDPWRESIDPIEA V RPAWLTPTVNNIAADLMVRIN NAGAAANAMNLCTALLASRQR SLTREQLTEQLNCYLDMRNVP
18213	48581	A	18320	1	2470	MFQPSDSGKSFIFNMSVGYNLE GIKQPPMQQFIDNMMDASDHP KFAQYRDTLNNLLQDDAFLAR HGLQEKRESLQALPARIPSTMV HGVTLSTMHGCPPEIEAICRY MLEEKGLNTFVKLNPTLLGYA RVREILDVCGFGYIGLKESFD HDLKLTQALEMLERLMALAKE KSLGFGVKLTNTLGTINNKAL PGDSTSGVLRTYERLLTAWML TCPCADEHQGESVKLATALT WWLRGSQNRDEITKDGFSNH AGGILGGISSGQQAIAHMAKPT SSIDVPGRTRNRFGEVEMITKG RHDPCVGIRAVPIAEAMLAIVL MDHLLRQRAQNAVKTIDIPRC AQSIGSFSGCIVGADTLPIQSE HYQVMRTDQRRYFGHPDLVM FIQRLSSQVSNLGMGTVLIGDM GMPAGGRFNGGHASHQTGLDV DIFLQPKTRWTSACLRLPQAL DLVSRDGGHVSTLWKPEIFSL IKLAAQDKDVTIRFVNPAIKQQ LCLDAGTIATGCAKCDPGVSGI AYAYLLTLRAQCLAHDLDPDPLE PLEIDGTLTPRYVFIHGGPRVFT YYTPKEESIKLFHDYLDLHRSN PNLDVQMVPVSVMFGRAPGRE KGEVNPPLRMLNGVQKFFAVL WLGRDSVRFVSPSVSLRRMADE HGTDKTIAQKLARVARMHFA RQRLAAVGPRLPARQDLFNKL
18214	48582	B	18321	1	1460	
18215	48583	A	18322	2	234	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, v-possible nucleotide insertion)
18216	48584	A	18323	282	422	
18217	48585	A	18324	1	1974	
18218	48586	A	18325	154	1944	
18219	48587	A	18326	18	386	KACEAVF*DQGLPLGPKVQGGQ WDWFFPGPALRHQQSVAHQA GGFRSLWGYSGVSGQCRHSD *SRPGREARRRRSVAG**SHAL HRQTALFGARSDADLPAAAPR YLLYRGLSAAHFRPQAG
18220	48588	A	18327	181	655	KARSPEDQGFRRPVHIDGGVW HLDVGSHPGAIEVGPKGMAVR HLKWAYASWV*NVVVRQFGPYLP WALEN/WRGAAPSTRGHGVC/G ITVFGKSDGTT/SHDQY*TAPYG SPHPPGRWSLRHRYPAHLTSSA LAFSDARRNAARQPRRWNP GYSQVICLPW
18221	48589	A	18328	1	658	MDDGTSIAPDGDWAFIGDELK MGIPENDRIREQKQYLNRKSY LHDVTLRAEPYMYWIAGQVKK RNMPEMLVLLPIVESAFDPHAT SGANAAGIWQIIPSTGRNYGLK QTRNYDARRDVVASTTAALNM MQRLNKMFDGDWLLTVAAYN SGEGRVMKAIKTNKARGKSTD FWSLPLPQETKQYVPMKMLALS DILKNSKRYGVRLPTTDESRL ARVHLISPVKCARFSRFVFCPA VCRDSSGADERRTDSGQCQYA GGVKPESVMGAIEVEGFSHISV TSAWSRGDNPAPMAFSLWL TVFSMVFKRRETVRSLSAVGA GELRGAAPSTRGPEWTHHWS GCHANGTARSADVPPDMPNS EVKRRSADGSGVSP*RLITAAK VGS*RQLKRTKRVGNPRTSGRY RCRRKRSTCLCKWH*VIFSKT ASVMAYVCQRPMAKVLWRVC
18222	48590	A	18329	642	1343	LCLHLPLPTRFRLQL*EEGGPV QPAAMPQWRTLPGGPRPALPL PRRLRGSSRLRAPGRLRGPRLR* RRHVCGGRRRAPLLRAGLRRL RLPRAGPVRRAPLCSRRPLLR PLLRPLRLRSRLHGSV*VPSA PRRRKRLARGPAGPQARGPSAL PFASGSGTARGRGRRRCALA GPRAPPWPLPGCWVSLAGWDP GAVSPRTPGCTQQPKDAGGFR GWSEAGVHDAQTV
18223	48591	A	18330	1	810	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 9,540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18224	48592	A	18331	236	717	ALPVGAAFSSTTGFSGFGAGG ASTFGLGGSTGFGGGATGAGS GSNSVLLAAIVAGSSDGAAASP ARTSSAAPSGGCD/QERRIVDFK RNKDGIPA VVERLEYDPNRSAN IAL VLYKDGERRYILAPKGLKA GDQIQSGVDAAIKPGNTRLISYG QHREAWR
18225	48593	A	18332	49	291	
18226	48594	A	18333	75	839	
18227	48595	A	18334	1	579	
18228	48596	A	18335	223	563	
18229	48597	A	18336	1	1219	
18230	48598	A	18337	157	864	RGNRQLQFPFRHWRNRLDGL LLQIQQLGHTVERHLVYQI ALVYNGHPGHADGMWILCIRV LLSLQONGFRVRYSIGHWGTG* AATDQARLMLGGHINAQFAGI QRLEDLGTQLLHTTNGLVEVE ARRQILQQLPLFLLLNQTDVW AIPGVHVLRFVDVVRDPS/EVLI DPRQAGLLWKVFATFRPEPTR PAVCCPRGGQSGDDRRAGCAC NHVELVARHRRSCPWHSDRH
18231	48599	A	18338	1	219	
18232	48600	A	18339	1	2226	
18233	48601	A	18340	46	228	
18234	48602	A	18341	382	1431	
18235	48603	B	18342	1	2400	
18236	48604	B	18343	1	912	
18237	48605	A	18344	2267	2539	
18238	48606	B	18345	1797	3411	
18239	48607	A	18346	1842	2560	
18240	48608	A	18347	1	1284	
18241	48609	A	18348	1	792	
18242	48610	A	18349	1	978	
18243	48611	A	18350	757	1011	LFGFRSNGFLIVVCQRLRQAVV NEQFLPETATLTHRGELLFHSP A*LPGVFYRLAQM*RHAVIQVF RATGVPEPERCQRPPHER
18244	48612	A	18351	148	679	RMSDDKFDIAIVVGAGVAGSVA ALVMARAGLDVLVIERGDSAG CKNMTGGRLYAHTLEAIIPGFA VSAPVERKV TREKISFLTEESAV TLDFHREQPDVPQHASVTVLRN RLDPWLMQAEQAGAQFIPGV RVDALVREGNKVTGVQAGDDI LEANVVILADGVNSMLGRSLG MVPAS
18245	48613	A	18352	1168	2241	
18246	48614	A	18353	1	1344	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
18247	48615	A	18354	440	886	
18248	48616	A	18355	1	2876	MAGVPGFEPGNAGIKNRCLTA WRYPIRITTLSEGWCGRRDLNSQ EATLQQPLLQAIDLKKHYPVKK GMFAPERLVKALDGVSFNLER GKTLAVVSGESGCVLACTLFA WNRNYFVLLFVGVLSSFGSTA NPQMFALEHADKTGREAV MFSSFLRAQVSLAWVIGPPLAY ALAMGFSFTVMYLSAAVAFIV CGVMVWVFLPMSRKELPLATG TIEAPRRNRDITLLFVICTLM WGSNSLYIINMPLFIHELH
18249	48617	A	18356	606	726	
18250	48618	A	18357	1271	1726	
18251	48619	B	18358	1	1633	
18252	48620	A	18359	1	407	
18253	48621	A	18360	427	2307	
18254	48622	A	18361	120	694	
18255	48623	A	18362	804	1087	KRQHLCTHSGAIRLRJAGVGSW KG/GRPNWRKMAVRWRVPASA VVSGWLRRWHCWVPVAMPSAE SPRIRCGAGCCICRLPLFRGCC TPARLTISH
18256	48624	A	18363	216	436	
18257	48625	A	18364	476	577	FRRWYWGCCSTTRLSHCLTR* M*CMRWSLAVCC
18258	48626	A	18365	1159	3744	
18259	48627	B	18366	169	743	
18260	48628	A	18367	2811	3513	SLPRGWFOPEYGNLEIMEKTYN PQDIEQPLYEHLGPPRVGLRRE LKKAQESYWAGNSTREELLAV GRELRARHWDQKQAGIDLLP VGDFAWYDHLVLTSLLLGNVP ARHQNKGSDVIDTLFRIGRGR APTGEPA AAAEMTKWFNTNYH YMVPEFVKGGQFKLTWTQLLD EVDEALALGHKVKPVLAGPGT WLWLKGKVKSEQFYRLSLNDI LAGYQQGLAETGVGPDIVTA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18261	48629	A	18368	1	2810	MKQTVYIASPESQQIHVWNLN HEGALTLTQVVDVPGQVQPMV VSPDKRYLYGVGRPEFRVLA RIAPDDGALTFAAESALPGSPT HISTDHQQGFVFGVSYNAGNV VTRLEDGLPVGVVHVVDGLDR LARQLIKNLATLKAGNARVVN SNAMSFLAQKGTPHNIVFVDP FRGLLEETINLEDNGWLAD ALIYVESEVENGLPTVPANWS LHREKVAFAAGAPYHYLNHTL GFPVRGLRRELKKAQDSY
18262	48630	A	18369	2279	2563	MNFGASLNSPTPRSYLSLGG EKAPVWEHTLGVPSRRPAAG KKAPERYWGGEHPVKKWLG G*ARKCRPRPWETL*KSHLR RRPSLGPWAGGL
18263	48631	A	18370	481	1020	
18264	48632	A	18371	1	998	MNENFGTQICVNNRSLFTDC SGYVTRYDHDHFRGQVTA VHREELSQYRAYDSRGQIA VKDTQGHETRYEYNAAGDL TTVIAPDGRNGTQYDAW GKAICTTQGGTLRSM EYDAAGRVIRLTSNGSHT TFRYDVLDRLIQETG FDGRTQRYHHDLTGKL RSEDEGLVTHWHY DEADRLTHRTVNGE TAERWQYDERGWLTD ISHISERHRTV HYGYDSKGR LASEHLTVHHPQ TNELLWQHETRLAY KRTGLANRCIPDTC PPVNAYLGTAC CQHEICDTPWLSY RDPFTGKSWLSGR YELHKRIYGITAK ERKDVVWHPDV RFFELYDENNEL RGSFYLDL YARENKRGGAW MDDCVGQMRK ADGSLQKPVAY LTCNFNRPVNG KPAFTHDEVITL FHEFGHGLHH MLTRIETAGV SGISGVPWDA VELPSQFMEN WCWEPEALAF ISGHYETGE PLPKELLDKM LAAKNYQAAL FILRQLEFGL FDLRLHAEFR PDQGA KILETLAEIK KLVA VVPSPSWGR FPFAFSHIF AGGYAAGY SYLWADVLA ADAFSRFEE EGIFNRETG GQSFLDNI LSRGGSE EPMDFKFR GRGEPQL* HTVVELPR PFHREILAF RPL*I TQAYLRH HR*RA*RC* CLASGC

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18265	48633	A	18372	409	533	TGNDAPVPAQSAQYRYLQ*SV RNFRLSFRGLNLSLPHYVDD VIPLMAEGKILPYLDPLQHAS RILKLMKRP
18266	48634	A	18373	222	659	SAGSVKTRQSGANKQRRTRSR ASFC/ETLSSVFPARWKISFLIP VGLPISNNYVCSLNPVWCAMR LNMPPMSKSCWQKHWSKTVS RWITTRHSFVQTLISTACWRRSP VTQSSWRSFACSTGLLSHAPP LPIRCHTNITNVWY
18267	48635	B	18374	1	1527	
18268	48636	A	18375	1	1005	
18269	48637	A	18376	2	314	WVSYCSGSTLL/LRLAQECQR QQGPWASAGDPGEGAGERERL PQALASPLQVKPARQ/RDPGL RTDPDGDASPALNGHIFALPA GTAGDCFP RPGRKNSGT
18270	48638	A	18377	3	576	
18271	48639	A	18378	189	563	QGRGSSRPGCGHLDPGGEWL PQRPLQLCLCPA YILIFAGVL VMVTGLGFGAILWERKGLS TTTGDRFWKDRQFWTCR/WQT SHRNQSGAGGQWDRFRSHQGH RDHEGRTSNWGS GFPREVA
18272	48640	A	18379	1	531	
18273	48641	A	18380	1385	1673	AASDRAAETG**KTR/HRWFL SVKLRTSTPTAVSPKK*KRLAW TRCMTPPSKR*KKR VITPSSPT SLTSTLPGATVATSPVMRVWN CSTAVCRS
18274	48642	A	18381	1	921	
18275	48643	A	18382	1	2115	
18276	48644	A	18383	2	149	ARRNESRRGR*HPCRPIT*GT VNQRPA GFRFAGPF RYSGKPG RERL
18277	48645	A	18384	482	1655	
18278	48646	A	18385	1	776	MENACVLLMGVLSTFLVSWLG KDAMAGVGLADNFNMVIMAF FAAIDL GTTVPGAFSLCKRDRR QARVATRQSLVIMTFLPVLLAP LIHHFGEQIIFVAGDATTEVKA LALTYLELTVLSYPAAAITLIGS GALRGAGNTKIPLLINGQVAML MQAPYYFQEAQIEAAIAAMDV APEYADIRQVESSTAVLYLFSE RFMTY GKA YGLCEWFEGSRLSI AHIPVTDNDNETQYHFRQSCQ HC/DRCSVHRLPDGGVVA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
18279	48647	A	18386	1017	9228	FGRGAGVQC*RGDRGQRRDEA GDGRLRLARL*ALYQTITHDLR YRHKNLVYRRKLASQRVTEHVN RAGLRYSYQYKEDCITITDSLA HNKVLHTQGEAGLKRIVVKKK HADGSVTQSQFDAVGRRLAQ DAAGRTTEYSPDVVTGLITRIT PDGRASAFYNNHNNQLTSATG PDGLELRREYDELGRLIQETAP DGDITRYRYDNPNSDLPCATED ATGSRKTMWTSRYGQLLSFTD CSGYVTRYDHDREFGQMTAV
18280	48648	B	18387	1	1431	
18281	48649	A	18388	575	835	RQKPERYLTAFTITLPLRWMT LVRVMRPVTCRRSRILLSIS HLCKWRVSTKSPVILWTILSN* RLFWKSWR*NLQSKYQDG
18282	48650	A	18389	1207	2465	ASTAQHQHLLSPAKEETTGWRI FHSPDPWALGRSQGGAGLIQPP EVQKGSVRYRARFALLGPAMV AHRHTGRPEIRYRYDSDGRVTE QLNPAGLSYTYQYKEDRIITD SLDRREVLHTQGEAGLKRIVK KEHADGSVTQSQFDAVGRRLA QTDAAAGRTTEYSPDVVTGLITR ITTPDGRASAFYNNHNNQLTS TGPDGLELRREYDELGRLIQET APDGDITRYRYDNPNSDLPCA TEDATGSRKTMWTSRYGQLLS FTDCSGYVTRYDHDREFGQMTA VHREGLSQYRAYDSRQGLIGV KDTQGHETREYNIAGDLGGI APEGG/RNG/TQYDAWGRRRTT /QGGDADDRSAGGTRARKGHT SFRSVGDRTVSRHGYPGRNLR RMVRSSVPLYRLTASIAVPVQE YRFPHPHQSEEVY
18283	48651	B	18390	1	2604	
18284	48652	A	18391	1	2640	
18285	48653	A	18392	1	549	
18286	48654	A	18393	290	389	HLCGPRTAR*ARFWHL*RAYG L*SGECRRAGSV
18287	48655	A	18394	1095	1268	HLCGPRTAR*ARFWHL*RAYG L*SGECRRAGSVAENARSACRC RRSAHAGRLFQTAS
18288	48656	A	18395	1056	2178	
18289	48657	A	18396	1	669	
18290	48658	A	18397	1628	1856	
18291	48659	A	18398	227	668	
18292	48660	A	18399	1	3186	
18293	48661	A	18400	291	631	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18294	48662	A	18401	1	1437	
18295	48663	A	18402	345	727	
18296	48664	A	18403	870	1043	
18297	48665	A	18404	1	2175	
18298	48666	A	18405	1	1332	
18299	48667	A	18406	1	1566	
18300	48668	B	18407	1	921	
18301	48669	B	18408	1	2487	
18302	48670	B	18409	1	2919	
18303	48671	B	18410	1	2214	
18304	48672	A	18411	1714	1979	RLAWRLAGRWAGSWRTSTIP PAAACSRRLRCSPPSKFCSAWCR WCSTRACSSCCRSSTSSPMPAWR PSAGS*LTARRRAPPSALVLR
18305	48673	A	18412	1201	2118	PSRQADKENRHPGRGVYPARM MSGLTGTHITVTGWCTTRGHN MKSRWSKVAIFTRWGRVAK RVWRRERDLTGWMSLSRKPVQV TWYGDGDLRTTIQNDRTRIQ TIYQPGSFTPLIRIPVLGGDDTT MDCLRTSIRLNAASVTCAVRRD QISMPGSRKEVVNAREEGVEFQ FNFQPYIACDEDGRLTAVGLI RTAMGEPGPDGRRRPPPVAGSE FELPADVLIMAFGFQAHAMPW LQSGIKLKDWGLIQTGDVGY LPTQTHLKKVFAGGDAVHGAD LVVTAMAGRQAARDMLTLF DTK*PGTAGTATG*PQYRTTEP ASRRFISRGASRHSSEGS/SVLG GGDTT/MGLFADHPPQCRQRD UPYRRDQISMPGSRKEVVNAR EEGVEFQFNFQPYIACDEDGR LTAVGLIRTAMGEPGPDGRRRP PPVAGSEFELPADVLIMAFGFQ AHAMPWLQSGIKLKDVGWLIQ TGDVGYLPTQTHLKKVFAGGD AVHGADLVVTAMAGRQAAR DMLTLFDTKAS
18306	48674	B	18413	1615	1656	
18307	48675	A	18414	1287	5056	
18308	48676	A	18415	1	271	
18309	48677	A	18416	1	588	
18310	48678	A	18417	2150	2332	
18311	48679	A	18418	1	238	LEELGVIGAVLVGFSL*VLWAP LQLPKAGGRVKVAGIQLGEVEF WKVS/KSCSSPDPPPGVMAAKIS ISQALQPPQSTR
18312	48680	B	18419	1	2721	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18313	48681	A	18420	712	1031	PVMRQRGVFRSVILKIRSAKCC QMIQPRVISHAMYSLSPPFALR RSTKSPKRFMSMNS*ASRSSGST SRDTSASIS*ARRSISRRLIRSL LISLISLLVNVV
18314	48682	A	18421	1	1779	
18315	48683	A	18422	693	921	
18316	48684	A	18423	758	1183	ALTAASRSECAVIMMTGRTSCC DIVEKWIPARCCQMIQPRVISH AMYSLSPPFALRRSTKSPKRFMS MNS*ASRSSGSTSRDTSASIS*A RRSISRRLIRSLIGWRSWLYTILI NSIPTNRAKSMKPEPSPNACSK VKRCC
18317	48685	B	18424	1	708	
18318	48686	A	18425	1	2436	
18319	48687	A	18426	1382	1813	
18320	48688	A	18427	900	1028	AGYAAPGRTRDRSSPSG*GYRY SGCYQICRQPGRLGSRKSPV
18321	48689	A	18428	1	881	MTPSRFAKKNKSLVKRCMPGI DAEVTMIKPIAARPKVSHSKVR SYMIRLSVSFSREPIQPFSAVEI QTRIRYGVSGFFLRVDTEHHP DRHAARALQYHITGSNRCDAIN AVQFDTAGGECTNRRMAEDHG RNVAVIQMLIRLVIKQAFREVP SELWTRNRKQACPFDFDCGENS AIAANNYDWFNGMNVLTFLRD IGKHFSVNQMINKEAVKQRLN REDQGISFTEFSYNLLQGYDFA CLNKQYGVVLQIGGSDQWGN TSGIDL/NPSSASESGVWPDRSA DH*SRWHQIW
18322	48690	A	18429	1	3270	
18323	48691	A	18430	1	374	MKTCWQILEIESTTQIDIRQAY LARLPLCHPETDPQGFALRQA YEEALRLAVNPVEEADDEEKD AAAEHEILRAFRT/FTGFRK*SFS AFRLAEIYSAIKYLEHGGRCSIT LAAVCNHRHSAI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18324	48692	A	18431	63	1272	LRSCNAVVCW*CVATCPSGE EDGIVLIDQDKCRGWRMCITGC PYKKIYFNWKSQKSEKCFYCYP RIEAGQPTVCSETCVGRIRYLG VLLYDADAIERAASTENEKDL YQRQLDVFLDPNDPKVIEQA IKDIGPLSVIEAAQQSPVYK MAMEWKLALPLHPEYRTLPMV WYVPLPSPIQSAADAGELGSG NGLPDVESLRIPVQYLANLLT AGDTKPVLRALKRMLAMRHY QRAETVDGKVDTRALEEVGL TEAAQEMYYRLAIANYEDRF VVPSSHRELAREAFPEKNGCG FTFGDGCHGSDTKFNLNFSR RIDAIDHQQEMFEAIAASKNL PKEDAHALGIFLRDLTTMDP LDAQYQSELFDGRGRATSL LLFEHVHGESRDRGQAMVD LLAQYEQHGLQ
18325	48693	A	18432	2	859	WPLRRSPYSIINGSGKSAASG SVMQVAQFNSHYQYDPKFERG MYYLYEHRRCFNNIIDYCNSL CYHAWLVAHKDDIERNYRG PLVQVVGWCDALFGAEELGIS RAQFDQFLRMMQGGAGFGG GYQQQTGGGRPGGHFFEKRR LLRMVDRLNARFTGGVLVS FKGPLEGFGPWQGLSPWVIG PDLGLPG/CLGAWGAVSVCH CPWVCKTGSFRRWVPHRRF HPPPG*KFPENWMGFCSSR TSCGLFSHPHSPPTMAFKN FELGHGTPPRGTRNRPTMS SNTYRPHRFQ
18326	48694	A	18433	479	601	CWRPLPAEKRWYLAANWW RLAARFVFPMLCVRQ*PSS MIWTTPDADIAIGTWRSCA VLGRKMPVSSITMRRRCY* CWRPLPAEKRWYLAANWW RLAARFVFPMLCVRQAAPYTK
18327	48695	A	18434	69	194	ATYENMLANPRN*KHDANRHY PPGLSCSLTVVSSRNR SARV
18328	48696	A	18435	173	298	ATYENMLANPRN*KHDANRHY PPGLSCSLTVVSSRNR SARV
18329	48697	A	18436	1	1734	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 9,540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /possible nucleotide deletion, \possible nucleotide insertion)
18330	48698	A	18437	851	2202	RQKRLIFCCVKGKNWPP*WRWLNEKLPCSLMLLPTLPPSVLGIRLQNQLQRQFVRQGGVWMPGD EVKKVTCKNGVVNEIWRNHA DIPLRPRFAVLASGSFFSGGLVA ERNGIREPILGLDVLQTATRGE WYKGDFFAPQWPQGFVTTDE TYARHRQGKPLKTCLPSVRCW ADLIPSPRDAAVFVPSVLYMP LNRLPNAQEANNE
18331	48699	B	18438	1	5301	
18332	48700	A	18439	710	889	
18333	48701	A	18440	1622	2615	
18334	48702	A	18441	1	1309	
18335	48703	A	18442	1	266	PRQCGFMKKRLENGDDYFAVN PRGRCLHCCWMTVLC*RRKRS YAVSCRQRPRPPVLA PVNSISRS VSPYTPPEYKPTVRAQLEKNCN M
18336	48704	A	18443	267	395	
18337	48705	A	18444	1	3807	
18338	48706	A	18445	1	2193	
18339	48707	A	18446	1278	1846	SCRSA PRNRHQIPGTYSRLPRH TTPPGYDHNKNPNLYISTRQK RDAFFAVQYHSLYYRQTLLPN DHNQSVDR*FVFL* NQNGYNS GRHLYWRYHSYNAL* LCHR HPVYYRLYYIFLQPVQMMPQ CPSPLMPECSFSFSLILINA/SNI QRESPVENRKVFNLRLKIIYYR LIJLCKGNLLNL
18340	48708	A	18447	1	2106	
18341	48709	A	18448	881	1401	
18342	48710	A	18449	1	233	MMGFDGTVQYMASLGAPMPM LAA/MYCGSYGSARRDINRAW LFHPSAGGAVYFLHAGYGGDW SPLLGYDRRCGWAKYD
18343	48711	A	18450	1	1960	
18344	48712	A	18451	563	928	FAIKSSPKAQAALWHVLHY*AV N* TNIFKTEKPIFNRGKFRPTP TRQLRECWIWVWGSASCOLTKQ AVVARWTIILMRRRKGWHG RA IILMPGGPRLKQVPRQFCKPPA AAARLSKSMGR
18345	48713	A	18452	1	828	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18346	48714	A	18453	1	1327	MMQKPATVDEEESPRETHRYS VRRRGELIVEAGGRAENTVVT GAGWLK VATGGIAKCTQYGN NGTSLVSDGAIATDIVQSEGGAI SLSLATLVNGRHPEGEFSVDKG YACGLLENGGNLRVLEGHRA EKIILDQEGGLLVNGTTSAVVV DEGGELLVYPGGEASNCIEINQG GVFMLAGKASDTLLAGGTMN NLGGEDSDTIVENGSIYRLGTD GLQLYSSGKTQNLVNVGGRA EVHAGEVTGDHVEITDASRQT LCNALKLQPDGEGSSRVPTCK ASRLRIDANFKRFVDEEVLPGT GLDAAAFWRNFDEIVHDLAPE NRQLLAERDRIQAALDEWHRS NPGPVKDKAAYKSFLRELGYL VPQPERVTVTETGIDSEITSQAG PQLVVPAMNARYALNAANAR WGSLYDALYGSDDIPQEGAMV SGYDPPQREAMECP
18347	48715	B	18454	71	4995	
18348	48716	A	18455	1	3572	MARKRKRNRNSKIGHGAISRI RPNPPEPCRNRYAQKYLTLAL MGGAFFVLKGCSDSSDVNDND GDGTFYATVQDCIDDGNNA CARGWNNAKTAFYADVPKNM TQQNCQSKYENCYVDNVEQS WIPVVSGLLSRVIRKDRDEPFV YNSGGSSFASRPVVPSSIVIMS YGLASYVIAVAFLEDRDRIQAAL DEWHRSNPGPVKDKAAYKSFL RELGYLVPQPERVTVTETGIDS EITSQAGPQLVVPAMNAR
18349	48717	A	18456	485	1999	
18350	48718	A	18457	44	270	
18351	48719	A	18458	1	2223	
18352	48720	A	18459	290	756	
18353	48721	A	18460	8	314	
18354	48722	A	18461	2	686	
18355	48723	A	18462	1	732	
18356	48724	A	18463	1	780	
18357	48725	A	18464	101	435	
18358	48726	A	18465	805	993	
18359	48727	A	18466	452	2180	
18360	48728	A	18467	691	1443	
18361	48729	A	18468	1	320	DPRDCRLKVGKEMFTLFGPQF VRELQQRGDFIDLKFDIPNT AAHAAAAADLVGMVNVNH ASGGARMMTAAREALVPFRPD APLLIAVPV*RSIKASDLVVPL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
18362	48730	A	18469	632	796	
18363	48731	A	18470	129	425	TDIITRQNGTGANIDAEIATKA STGLFVYQPRFARCPVMSSGY HTATRGSSGRTVRARVCHTA AGVYVGSSKQTQF*NRFCQRKCR RYPDGCRRRA
18364	48732	A	18471	1	1062	
18365	48733	A	18472	1	996	
18366	48734	A	18473	1	1004	MLRVYHSNRLDVLEALMEFIV ERERLDDPFPEMILVQSTGMA QWLQMTLSQKFGIAANIDFPLP ASFIWDMFVRVLPPIPKESAFN KQSMWSKMLMTLLPQLLEREDF TLLRHYLTDDSDKRKLFLQLSSK AADLFDHVSAGSVSSKVEQLR AQLNERILVLDGGMGMTMIQSY RLNEADFRGERFADWPCDLKG NNDLLVLSKPEVIAAIHNAYFE AGADIETNTFNSTTIAMADYQ MESLSAEINFAAAKLARACADE WTARTPEKPRYVAGVLGPTNR TASISPDVNDPAFRNITFDGLVA AYRESTKALVAGIVLMPAIPAL WEAEPGGCA
18367	48735	A	18474	606	846	
18368	48736	A	18475	3042	3933	GPHPAPGGA/CHYDVHQPYL RQRTEDRRTRHYLAQSFAYSL RQWAFHFLLDNITPDIQIVIAH TRRTGGFTITASEAAIEMLLCFK RDFVALQHLFNQIDAPARAVQF IAQKLIGWACCEAARKNQLPH NTTKRSLMSILYEERLDGALP DVDRTSVLMALEHVPGLIILP TDEEIIPYQCDGLSA/YRTRPLL VLPKQMEQVTAIVACHRLRV PVMVFPGLRLSREAFLLTAEFG TQELRRPAQLRLQVYRLSTAG RHHPAQNSPIRVLEVDIDLLGG TQELWG WKETH
18369	48737	A	18476	869	1639	ICSRCKSTRTSPTCRKAIVIL VCFVIRELLVVAPELTIIG.PEG NWITVSKGMLAKSPVDSNSTQ LKEAEERLKAQYGLQLVES QNELQNQLDKCRNEMMTMT MQLRNKKRRRELGNLIKFRSG AESLPDAVVLTEEGGIFWCNG LAQQLGLRWPDENQGNILNLL RYP/EVYAISENA*FFSPAQSGA QHRAASGNSRHALYPQTVADG GA*CHANASTGRGA*LFQCQRE P*VTYAIRDVTGLPGDDE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, v=possible nucleotide insertion)
18370	48738	A	18477	388	2356	
18371	48739	A	18478	137	318	GGQLSSWAMDFCHL/PAFWNS MTWHLQRLWGACGYFWHAQ WERLLTTFEGNEWILIFIGGIL
18372	48740	A	18479	923	1149	
18373	48741	A	18480	1	373	
18374	48742	A	18481	168	360	
18375	48743	A	18482	1	147	
18376	48744	A	18483	161	440	
18377	48745	A	18484	277	2172	
18378	48746	A	18485	164	406	LFRREGSYDRYLLMDDYCRRK DDSYFDRYRDSFDGRGPPGPES QSRAGKGVETVYSSYY**NTL QKREETNNQYPHLKKG
18379	48747	A	18486	405	999	
18380	48748	A	18487	64	288	
18381	48749	A	18488	159	550	CAVCHISFQDTPVLVSSNVTMQ FGSKPLFENISVKFGGNGRYGLA IGANGSGKSTFMKILGGDLFPT LGNGSLDPNERIGKLRQIDQFAF EEFTVLDTVMGHKELWEVKQ ERDRIYALPEMSEEDGYKVAD
18382	48750	A	18489	3	481	
18383	48751	A	18490	2	233	
18384	48752	A	18491	2	3026	SVPTIIFFLPVLRFWRPGIQA KKCHLFA GTQSRRTLRQRT AKGIPQQRMTAKREEISIGILHV TPQRRRECRGDNRFTRFRRTPT WRLLGHCVSAAVTGVLPAVAG SPLAYS DTEFYPVAGGTMSQ HLPLVAAQPGIWMAEKLSPLS AWSVAHYVELTGEVDSPLLAR AVVAGLAQADTLRMRFTE DNG EVWQWVDDALTFELPEIDRLT NIDPHGTAQALMQADLPQDLR VDSGEPLVFHQTTLGLFI
18385	48753	A	18492	2714	3079	RLIGLRMVREFVGLIRRASVAS GSWHCCMRMRKRLIRPKPSILQ SMLWSPSTRMFFTLVPFISIEE LPFTFRSLMMVTLSPSASRLPLA SLTISSSLSCAGSASFHS*AHSG QMYMPLSS
18386	48754	A	18493	1	888	
18387	48755	A	18494	1778	2025	
18388	48756	A	18495	1	1425	
18389	48757	A	18496	3	96	FVGRIRRLRRIRRY*FTPLTD*LS CAHQVP
18390	48758	A	18497	420	955	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, v=possible nucleotide insertion)
18391	48759	A	18498	533	1006	RPSIFACVSP*RINHSRIMPQTN AKNAKPNAQVMRGVISRRRR AMLFSNSAITRPTTSFTMAITS ASSSPPAVKVSICPHGINTPTNIC NTTSCFRLIPHMTPKPLPLYSE SGPSCSSCSASARNSGSLPISIKV ANAQAQSASTSGMLWLSGQ
18392	48760	A	18499	3	418	EWHYLSADRRQCAFQGVSRKT ATVCHHPVDYYAGSLYRLYFT DRLRLARLAGHAAES/GTPASHA VFQLVLE*L*SPLFSPVSTSGGR TANSTVLIMKSCMSGAVEROPT NWQAILMFLIFVVTGLITYWA SNAYVLAG
18393	48761	C	18500	63	500	
18394	48762	A	18501	1	1107	
18395	48763	A	18502	1	153	
18396	48764	A	18503	88	510	
18397	48765	A	18504	204	654	
18398	48766	A	18505	241	771	
18399	48767	A	18506	1655	1909	
18400	48768	A	18507	2	48	
18401	48769	A	18508	1	585	
18402	48770	A	18509	1	723	LQPPGRRWAAPAV\SGLSRQV\ RCFSTSVVRPFA\KLVGPSVQV\ SVIEGRYATALYYAASRQNKL EQVEKG\LLRVAQILEGTPKWA ASVLESPMLKAFPLKVKKPKM TITAKVGGSLPLTYQTLINfall ENGSD*GNYPRESFSGFLTMD GVFHSRERV\CTV\TSGIFL*EG RPQFSEFKNCSRGFLRSRAKFL KLGA\TDPSILGGMIVRIG\K YVDMSVKTK\QKLG\RAMREI
18403	48771	A	18510	400	894	
18404	48772	A	18511	1	1023	
18405	48773	A	18512	73	424	RPGMWSTRSPNSTA WPLSLEPD PGMASACTTMHTTTTIAEPDPG MSGWPDGRMETSSPTMDIVVI *CAIAAAEAI\VLVSLFVMLRYM YRHMGT\YHTNEAKGTGVADS ADACPAAGDPA
18406	48774	A	18513	141	563	RPGMWSTRSPNSTA WPLSLEPD PGMASACTTMHTTTTIAEPDPG V\SLP\PDGRMETPTPHP*LTMV VIAGVIA\CLWPFVLSLPSSFVM VALTLLTGHKGARTTPNEAKG\ TEFAESIADAALQG\DPAL\QDA GDSSRK\EYFI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, v-possible nucleotide insertion)
18407	48775	A	18514	182	935	QAFELHCPCKPKFSTLPSPAWPP RHTDLRKRGRRTAQ*YAGNES HPPSLPRYLRRSRH/SRMQAPSS TCSYSHTSLQCSPAPQNH/AQHP *PALEELACG/SPSVSSPYLVLS CQEQPHHCCPPSTPRPSW/CPSS GDAICYSPGQ/CPRSRGPL/EDS SDSPPAEQVLPSSGSHNTLYLR CKRFSAFILNCEPPSK/C*KPGHR CRS*AGILTLLPPG/ERGP/GDGP CSTGRQASAKTPPPSPHTGHS LWSEEK
18408	48776	A	18515	48	676	KARLTWQOTREESLCRETPPYK TIRSRETYSLPREQHGKDLPP*F NYLPPSPSHNTICPG*QDQGRFT QPLYLRCKRFSFILNCEPPSK/ C*KPGHRCRS*AGILTLLPPGGE AQHFVKVHPSIPL/REGGEVGIK PKKTSPTGTELLMQP/CHQPSPT CQAPRKSNNR/LGCLSPMLKHS TLGYLLWLQKATWLKGFSGTSG W*M*GRFHL
18409	48777	A	18516	86	92	TANAALHQSPSPRTCPAPRKS NRPQAA*ALNC
18410	48778	B	18517	1	2031	
18411	48779	A	18518	98	367	DLFLYLSWQHCHPYSHCHPNQ KPGFRMLKLSS/ETVTIELKNGT TRSHGTJHQVVDV/QMNTHL KAVKMTLKNREPVL/ETLSIR GNNIR/YFILPD/SVYPLDILLVD VDPKVKSKKREAVAGRRRRG RG/TRDVARGR*RGNNIR
18412	48780	A	18519	1	310	
18413	48781	A	18520	37	136	RRRPSSSWALPPSRGPSST*AER GAQHQQPVPA
18414	48782	A	18521	3	305	FFTLCLQWGLFSCSPICSGVGR YWA*VCLCFLQIEAIELPMDPK LNKRRGFVFTFKEEPPVKVL EKKFHTVSGSKVRCSQLCLASC AAGELALRGMG
18415	48783	B	18522	249	367	
18416	48784	A	18523	1	1008	
18417	48785	B	18524	17	835	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, \ =possible nucleotide insertion)
18418	48786	A	18525	2	1188	SLIKLNSPPRGGGTARYGAWL LVGGFPCGGGQGGDTVGAAP WADWGEASAAASFVLAEC ARLSSLRVGDEAGSRGVIWRAR SPRLGLALSEAGVEEQPMETT GASENGHEAVPEASRGRCW TPLRRGLEARPRPRAGIRTAPR D/QRINASKNEEDAGKMFVGG SWDTSKKDLKDYFTKFGVAV DCTIKMDPNTGSRGFGFILFK DASSV*KVLQDQKEHRLDGRVI DPKKAMAMKKAPVKKIFVGG LNPEPTEEKIRESFGFGEIEAI ELPMDPKLNRGRGFVITFKEE EPVKKVLEKKFHTVSGSKCEIK VAQPKVYQQQYQSGGRGN RNRGNRGQ/GGGGGGG*GQGS TNYGKTQ/RRGGHQ\NNYKPIL EAGRQERPT
18419	48787	A	18526	3	784	PAMNGLSLSELCLFCCPCPG RIAALAFLLPEATYSLVPEPEP GPGGAGAAPLGLTLRASSGAPG RWKLHLTERADFQYSQREVRST IEVFPTKSARGNRVSCMYVRCV PGARYTVLFSHGNAVLDGQMS SFYIGLSRLHCNIFTYDSSGYG ASSGRPSERNLYADIDATWQAL RTR*GRPLVGRVRARWRPRLTL LRRRQVRHQPGQHPSCCTGRSIG HGAHRGTWPRATSVPRWCCTR RSTSGMRVAFPDQERPTASTP FPYIRERCPRLTSPRAHHPTGTK DEVIDFLEAGWRSTRRCHQGG GAAVGGGGPGHNDIELYSQYL ERLASLSFSQELPSQRA
18420	48788	A	18527	3	1990	
18421	48789	A	18528	82	406	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, - =possible nucleotide insertion)
18422	48790	A	18529	2	1474	ARASGSGSSSGQGKMGQSIQRG GHGSGGGKKDDKDKKKKYEP VPTRVGKKKKKTGPDAAASK/L PLVTPHTQCRLKLLKLERIKDY LLMEEEFIRNQEQMKPI.EEKQ EEERSKVDDLKGGPRLSVGNL GKRFIDDNHAIIVSTPVGSEHY VSIL/SFVDKDLLEPGCSVLLNH KVHAVIGVLMGDTDPLVTVM KVEKAPQETYADIGGLDNQ/IQ EIKESVELPLTHPEYYEEMGIKP PKGVAILLVPPGTGKTFLPKAV ANQTSATFLRGGGSELIQKNLG DGPKT/LSRELFR/VSEELAPSLR FIDRILPPLGTRKY/DSNSGGE/R EFQRTMLELLNQLADGFD/SRG D/VKVMPTNR/IETLDPALIRPR PAFDRKYEFP/LCPDEK/TKKRIF QISHKS/RMTLADVGTPWTTLI MAKDDLGA*PSKAICT/EAGL MAL/RENRRMKVPNEDFKKS KENVLYKKQEGTPEGVVSMLN PWLVIKRMVGRFLNP
18423	48791	A	18530	2	274	WQDLICRMAASVKEQSTKPIPL PQSTPG/ESHSLSTSGKSEVRDL FVAERQFAKEQHITDGTLEKVG EDYQIAIPDSHLPVSEERWALD ALRN
18424	48792	A	18531	3	844	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18425	48793	A	18532	261	2814	VRFNRLIRIVCNIKICAVSHCPP KVFKLNSLFFLHRFDSVAFGES QSEDEQFENDLETDPPNWQQL VSREVLLGLKPCIEIKRQFVINEL FYTERAHVRTLKVLDQVIFYQR VSREGILSPSELRKIFSNLEDILQ LHIGLNEQMKAVRKRNETSVID QIGEDLLTWFSGPGEELKHAA ATFCSNQPALEMIKSRQKKDS RFQTFVQDAESNPLCRRLQLKD IIPQMQRLTKYPLLLDNIKYT EWPTEREKVKKAADHCRQILN FVNQAVKEAENKQRL/EEDYQ RRLDTSLLKLEYPNVE/RLRN MDLTKRKMIHEGPLVWKVNR DKTIDLYTLLEDILVLLQKQD DRLVLRCHSKILASTADSKHTF SPVIKLSLTVLRQVATDNKALF VISMSDNGAQIYELVAQTVSEK TVWQDLICRMAASVKEQSTKPI PLPQSTPGEGDNDEEDPSKLKE EQHGISVTGLQSPDRDLGLEST LISSKPQSHSLSTSGKSEVRDLF VAERQFAKEQHTDGTLEKVEGE DYQIAIPDSHLPVSKE/RRALDA LRNLGLLKQLLVHQLGLTEKSA LENWQHFFRYRTAFQGPQTDS VIQNSENIKAYHSGEGHMPFRT GTGDIATCYSPTSTESFAPRDS VGLAPQDSQASNILVMDHMM TPEMPTMEPEGGLDSDGEHFFD AREAHSDENPSEGDAVNKEE
18426	48794	A	18533	90	383	ILQLHSSGPCLLWL*LSFRSLST TAVICQCCRPAADFHPSGSSRV AVLLIQ/HRRPLPLPIGLKACYFS ALSLQTSLTCLGLVVLDDPPE AASLDKV
18427	48795	A	18534	1	456	
18428	48796	A	18535	830	1092	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \=possible nucleotide insertion)
18429	48797	A	18536	391	1824	GSGADASGFISDAGLIFKKAASK GPKRLEKFSDERAAYFRCYHKL FLLFSSLCYGTYHVVLPTLKP REDEDWISLCLRHCLMQK DTH SMLGECGERREGKKQKTGALG SSLSLEDAKHL LFPALPFSWN ALPQDL CNVFKLLWDYRIRVD PSPiAGTLIRRDTPQGESHVKT GRHWSDTIKSQRCCQLRQPPDR PIPILLMVKGQHVWPSQLDKAQ IQEVTELN NVKNVARLPKSTKK HAIGIYFNDDTSKTFACESDLEA DEWCKVLQMECVGTRINDISL G\EPDLLATGVE\REQSE\RFNV Y\MTSP*LRMLHG\ECALQV\T Y\EYICLWGRPRTQPQEFKLISWP LSALRRYGRGTPWFNYQAGR MCQTGEGLFIFQTRDGEAIYQK VHSAALAI AEQHERLLQSVKN SMLQMKMSERAASLSTMVPLP RSAYWQHITRQHSTGQLYRLQ DVSSPLKLHRTETFPSSLQDS
18430	48798	C	18537	22	620	
18431	48799	A	18538	48	413	EDSKSKTISHPWRDCGDYCHH QGLERCGRGDSHHTPVQLS*LA CAED\NKSWMRT\GIIVSLTKC* LQMQLLYQMWFHCLSKLTHLL GISTLQLCVTLFREILITFPLHKI SHWSITLMTLR
18432	48800	A	18539	23	124	QWVIISLTKW*LQLQLLYQMWF FHCLSKLTRLLP
18433	48801	A	18540	1	1860	
18434	48802	A	18541	209	3816	QGRPTFRFRKYREHHKDTPREE QLQDT*SSDSPKLK*RKCC*GQ PERKVKLPTKGSPSD*KRISRQ/ KTLQARRQSWFFEKINKIDRPQ ARLIKKREKNQIDTIKNDKGD ITTDPTIEQITIREYYKHL YANK LENLEEMDKFLDITYLPRLNQE EVESVNRPTGSEIEAITNSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQMEKEGILPNSFYEASII LIPKPGRDITTKGNFRISPLMNI DAKIL
18435	48803	A	18542	1	1521	
18436	48804	B	18543	1	2265	
18437	48805	B	18544	1	1716	
18438	48806	A	18545	1	1704	
18439	48807	A	18546	1	3618	
18440	48808	A	18547	1	3087	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, v=possible nucleotide insertion)
18441	48809	A	18548	277	350	SPVEKELKLWKNRHKLLSC*W-LTC
18442	48810	A	18549	197	422	IVNKVVLPGGGPASPSLKGFVWYKLAQVWVKLEGP*PFIFIQISLSI*PRSFLV*IK*ECSRLPISFTSGR
18443	48811	A	18550	1	3171	MVKGSIQEEELTILNIYAPNTGAPRFIKQVLSLQRLDSDHTLI MGDFNTPLSTLDRSTROKVNKDTQELNSALHQADLIDYRTLHPKSTEYTFFSAPHHTYSKIDHILGSKALISKCKRIEITNYLSDHS AIKLELRINKLTQSRSTTWKLN NLLNDYVWHNEMKTEIKMFFETNENKDJTYQNLWDAFKAVCRGKFIALNAYKRKEERSKIDTLTSQLKELEKQEQRHSPSRREQITKMRAELKEIETQ
18444	48812	A	18551	209	2432	OGRPTFRFRKYREHHKDTPREELQDQT*SSDSPKLK*KKC*GQPERKVKLPTKGSPPD*KRISRQ/KTLQARRQSWFFEKINKIDRQPARLIKKKREKNQIDTIKNDKGDIITDPTIEQITIREYYKHLYANKLENLEEMDKFLDTYTLPRLNQEEVESVNRNPTGSEIEAITNSLPTK KSPGPDGFTAEFYQRYKEELVPFLLKLFPQIEKEGILPNSFYEASII LIPKPRDITTKGNFRPISLMNIDAKILNKILANQIQQHKKLIHHDOQGFIPGMQGWLEVLARA/IRQEKEIKGIQLGKEEVKLSLFADDMIVYLENPTVSAQNLLKLISNFSKVSQYKINVQKSAFLYTNNRQTESQIMSELPFTIASKRIKYLGIQLTRDVKDLFKENYKPLNEIKEDTNKWKNI PCSWIGRINIVKMAILPKVIYTFNAIPIKLPMTFFT ELETTLKFIWKQKRSHIAKSILSQKNKAGDITLPDFKLHYKATVTKTAWYWYQNRDIDQWNTTEPSEIMLHIYNHLIFDKPDKNKQWGNDSL FNKWCWENWLAICRKLKLDPFLTSTYTKINSRWIKDLNVRPKTIKLEENLGNITQDIGMGKDFMSKTPKAVATKAKIDKWDVVKLKSFTAKETTRVNRQPTWEKIFATYSSDKGLISRIYNELKQIYKKKTNNPIKKWAKDMNRHFSKEDIYAAKRHMKKCSSS
18445	48813	A	18552	1	3255	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, / =possible nucleotide insertion)
18446	48814	A	18553	1	3139	
18447	48815	A	18554	1	3210	MVKGSIQEEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDYRTLHPKS TEYTFSSAPHHTYSKIDHIVGSK ALLSKCKRTEITNCLSDHSAIK LELRKLNLTQNRSTTWKLNLL LNDYVVHNEMKAEIKMFFETN ENKDDTTYQNLWDTFKAVCRGK FIALNAHKRQERSKIDTLTSQ LELEKQEQTHSKASRRQEITKIR AELKEIETQ
18448	48816	A	18555	1	3345	
18449	48817	B	18556	1	3127	
18450	48818	A	18557	1	3325	
18451	48819	A	18558	1	3145	
18452	48820	A	18559	1	548	
18453	48821	A	18560	1	3229	
18454	48822	A	18561	1	3352	
18455	48823	A	18562	1	1965	MGDFNTPLSTSDRSTRQKVNK DTQEMNSALHQADLIDYRTRH PKSTEYTFLSAPHHTYSKTDHIL GSKALLSKCKRTEITNLYSDH SAIKLELRKLNLTQNCSTTWK LNLLLNLDYVVHNEMKAERKM FFETIENKDDTTYQNLWDAFKAV CRGKFIALNAHKRQERSKIDT LTSQLELEKQEQTHSKTIRRO EITKIRAELEKEIETQKTLQKINES RSWFFERINKIDRTLARLIKKR EKNQIDRIKNDKGDITDDPTQIQ TTIREYYKHLANKPENLEEMD KFLDITYTLPRLNQEEVESLNRI SGSEIVAIINSLPIKSPGPDGFT AEFYQSYKKELVPLLLKLFQSI KEGILPNSFYEASILLPKRGRDT TKKENFRPISLMNIDAKILNKIL AKRIQHIKLIHHDQVGFIPG MQGIKYLGLQTRDMKDLKE NYKQLLNEIKEDTNKWKNIPCS WVGRINIVKMAILP/KELEKTTL KFIWNQKRACIAKSILSQKKA GGITLPDFKLYYKATVTKTARL YTKHGTSICCGSFGEELPMQKA KRELAHMAKAGARVKGQLG HVTQHQLGSIEWFNKYSLSYY TVDTKPFQFSHPTKDNKTGLTCR NRTTVGVLDLQAKGNLVVVKHLS SLQHCYEFICHI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18456	48824	A	18563	1	3099	MGELITPLSTLDRSTRQKVNKD TQELNSALHQGDLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITNYLSDHSA IKLELRIKNLTONRSTTWKLN LLLNDYWIHNEMKAEIKMFFET NENKDDTTYQNLWDAFKA VCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTTHSKASRRQE TKIRAEKKEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
18457	48825	A	18564	1	3253	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQGDLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKWKRTETITNYLSDH SAIKLELRIKNLTONRSTTWKLN NLLLNDYVWVHNEMKAEIKMFF ETNENKDDTTYQNLWDAFKA VCR RGKFIALNAHKRKQERSKIDTL TSQLELEKQEQTTHSKASRRQE ITKIRAEKKEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
18458	48826	A	18565	1	3095	
18459	48827	A	18566	2	2678	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18460	48828	A	18567	1	2478	MKAEIKMLFETKENKDDTTYQN LWDALKAVCRGKFIALNAHKR KQERSKIDTLTSQLKELEKQEQ TLASKASRRQEITKIRAELEKET QKTLQKINESRSWFFERINKIDR PLARLIKKKREKNQIDAINKDK GDITTDPTETIQTITREYYKHLA NKLLENLEEMDKFLDTYTLPRLN QEEVESLNRPIITGAEIVAINSLP TKKSPGPDGFTAIFYQRYKEEL VPFLLKLFQSIKEGILPNSFYE ASILIPKPGRDTTKKENFRPISL MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGMQGWFNIRKSI NVIQHINRAKDNHMIISIDAEK AFDKIQPFMLKTLKLAIEIKYL GIQLTKDVKDFFKENYKPLLKE IKEDTNKWNIPCSWVGRINIV KMAILP/KELEKTTLKFIIWQK RACIAKILSQKNKAGGITLPDF KLYYKATVTKTAWYWYQNRD IDQWNRKTETSEITPHIYNYPFD KPEKNKQWQKDSLKNKWCWE NWLALCRKLKLDPLTPYTKIN SRWIKDLNVRPKTIKLEENLGI TIRDIGMGKDFMSKTSTAMAT KAKIDKWDLIKLSFCTAKETT IRVNRQPTKWEKIFATYSSDKG LISRIYNELKQIYKKKTNNPIKK WAKDMNRHFSKEDIYAAXKH MKKCSSSLAIREMQIKTTMRYP LTPVRMAIIKKSGNRRTPTRPIQ
18461	48829	B	18568	1	3403	
18462	48830	A	18569	2	2976	APRFIKQVLSDLQRDLDSHTIIM GDFNPTLSTLDRSTRQKVHKDT QELNSALHQADLIDYRTLHPK STEYTCFSAPHHTYSKIDHIVGS KALLSKCKRSEIITNCLSDHSAI KLELRIKKLTQNRSTTWKLNLL LLNDYVWHNEMKAEIRMFET NENKDDTTYQNLWDTFKAVCRG KFIALNAHKRKQERSKIDTLTS QLKELEKQEQTHSKASRRQEIT KIRAELEKETQKTLQKINE/SR SWFFERINK
18463	48831	A	18570	472	829	AIASESPKAWQLPCGAQAQF AALPGLGNYKFLTLITGYGSN KSPPP*GYLVFQTYSSLP LLRLPP GHFGFLLPLSQRLRRELQCWL G*LTQTIKMKSVYHSTTEVRKS MHGQIEIH

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: In US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
18464	48832	B	18571	1	2293	
18465	48833	A	18572	1	3810	
18466	48834	B	18573	1	4107	
18467	48835	B	18574	87	3161	
18468	48836	A	18575	1	3192	
18469	48837	A	18576	1	1983	
18470	48838	A	18577	1	3156	
18471	48839	B	18578	1	3471	
18472	48840	B	18579	1	2337	
18473	48841	A	18580	1	3852	
18474	48842	A	18581	1	3057	
18475	48843	A	18582	1202	2004	SGIYMIGFEQVLKAQPLPSSPNG PMNKAIVATVVGMEVMHGLSNM DFHSRRLLTWLRPLPGFTGPG/Y QGVKVEVAPLTIITPSDPLAKFL LLISATSTSLEVTVPGEMLPPR DTTKIATFGTGTGFLALQLADG LLWDLVIIPGKGKPSRDLVESPS PYSTYEGIDGWDFEPAPTATKP PVMPAPALPPDTRSGSKAPTVP TPYPQMEHHQVQLASNNNSNTE ALGHLSPQSSWVQTGPGQNSGP AIPNHLGKDMISPPQMAPAGVK WESQKY
18476	48844	A	18583	1	2832	
18477	48845	A	18584	1	3702	MQKKHDKIRNSFMIKTLKKLRT EGIYLNLIKATYKKPITNIILNGE NQKAFALRSGRFWILALCQM SRLRKLTNLYSDHSAIKLELRIK NPTQSRPTTWKLNLLNDYV VHNEMKAEIKMFFETNENKDT TYQNLWDAFKA VCRGKLIALN AHKRKQERSKIDTLTSQKLELE KQEQTHSKASRRQEITKIRAE KETETQKTLQKINESRSWFFERI NKIDRPLARLIKKKREKNQIDTI KNDKGDITTDPT
18478	48846	A	18585	1	3139	
18479	48847	A	18586	2	2918	
18480	48848	B	18587	1	3242	
18481	48849	A	18588	1	3640	
18482	48850	A	18589	371	522	
18483	48851	B	18590	1	3918	
18484	48852	A	18591	1	3057	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, \ =possible nucleotide insertion)
18485	48853	A	18592	1	3233	MGKKQSRKTANSKKQSTSPPP KEIHSSSPATEQSWTENDFDEL EEGFRRSNYSELREDIQTGKGE VENFEKNLEECITITNTEKCLK ELMELKAKAQELREECRSLRSR CNQLEERVSAEMEMNEMKRE GKFKREKRIKRNQSLQEIWDYV KRPNLRLTGVPESDGENGTKLE NTLQDIIQENFPNLARQANIQQ EIQRMPQRYSSRRATPRHIVRF TKVEMKEKMLRAAREKDRSTR QKVNKNTQELNSA
18486	48854	A	18593	965	4165	TSWKGTTSTRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDY RTLHTKSTEVTFFSAPHHTYSK IDHIVGSKALLSKCKRTEIITNY LSDHSAIKLELRKLNQSRSTT WKLNLLNDYVWHNEMKAE IKMFFETNENKDTTYQNLWDA FKAVCRGKFIALNAHKRQKERS KIDTLTSQLEKEQEQTHSKA SRRQETIKIRAEKKEIETQKTLQ KINESRSWFFERKINIDRPLARLI KKKREENQID
18487	48855	A	18594	1	5093	MEGEMNEMKREGKFREKRIKR NEQSLQEIWDYVKRPNRLIGV PESDGENGTKLENTLQDIIQENF PNLARQANVQIEIQRTPQRY SRRATPRHIVRFTKVMKEKM LRAAREKDRSTRQKVNKDTQE LNSALHQADLIDYRTLHLKST YTFFSAPHHTYSKIDHILGSKAL LSKCKRTEIITNYLSDHSAIKLE LRIKNLTQNRSTTWKLNLLN DYVWHNEMKAEIKMFFETNEN KDTTYQNLWDTF
18488	48856	A	18595	1	131	
18489	48857	A	18596	5382	9269	RAKSPANIIMTGSNSHITLTLN VNLGNSPIKRHLASWIKSQDP SVCCIQETHLMCRDTHRLKIG WRKIYQANGKQKAGVAILVS DKTDFKPTKIKRDKEGHCIVK GSIQEEELTILNIYAPNTGAPRFI KQVLSDLQRDLDSHTLIMGDFN TPLSTLDRSTRQKVNTDTQELN SALHQADLIDYRTLHPKSTEYT FFSAPHHTYSKIDHIVGSKALLS KCKRTEITNHLSDHSAIKLELRI KNLTQS
18490	48858	A	18597	1	312	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18491	48859	A	18598	142	876	RKKGILPPKESLKELEEEAEEQ RILQQSVVKTYEDMTLEEEDH EDEFNEEDECAIEMCRQRLAE WKATKLKNKFGVEIISGKDY VQEVTKA/ERRALWVILHLYK QGIPLCAL/VNQHLSWTLPGSFP DVKFIKAISTTCIPNYTDRNLPT ILVYPGRRYQGLSLVLWCLAG MNPQEQMSWEWKLESGAIMT DLEENPKPIEDVLLVLSAALW SS*RGDSDEGDLRATASITCRT
18492	48860	A	18599	1	2310	LYNRRRRRCRSHCRHRCRLSS GLRKEEVISLGASLGRVFPVPCSP PTVSAARGPTGAPGGPNKPLCS GCCDDGFNLGRQQWGNPLPFC SKTISSSLHWTSQVNLVEILP AIFSSFLNLQHVNLWFLAAM KAVTEQGHELSNEERNLLSVA YKNVVGARRSSWRVSSIEQKT ERNEKKQMGKEYREKIEAEL QDICNDVLVRGQCFCFEQWFL NSINLMYKCRLSNYFRYLSVA SGDNKQSK*YL*KEIRPVMEPV FFHRDFTLILRLGLALNFSVVF YEILNSPEKACSLAKTVRKTL DI*P*QNSACVINFILFLNLRDN LTVSTTSTGFIVSFLFTYLIHCH LQEGICTIKCSYSFKLLNLL
18493	48861	A	18600	3	1124	
18494	48862	A	18601	340	1323	AARPQKRHHNNHSSLLTGSHH WKRGRVQNIADVLQFCLYLLT VLFVPCSPPTGMTMDKSELVQ KAKLAEQAERYDDMACSERH VTEQGHVLSNEEKSCSLVAY KINVIVGARRFLPGRVSSI*A*K QRRNEKKAADGQKSTREKIEG RTCRTFCN*CFWELLGQISLFPN ATQPRKVKVFYFEK*KGDYF/R YLF*KWQS*RQQTQPTCVGTSP ARAYPGSNLKI*LRKKMQP/TH PNSVLVLAPKFPQSFYIEILNSP VEKGLVSLGKNGHFD*SNLLNL DTLEWKSLLIKDSTSDSWQLLR DNULTLWDIRKTRGDEGDAGEG
18495	48863	A	18602	33	89	
18496	48864	B	18603	167	232	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18497	48865	A	18604	14	600	MAELAPASPSDIKASVNSGDTT LLCSRRQSCGMNEVRQVSLTY GSPAPSHSLPLQPRSGGLCP AW/PDPHQLFDDTSSAQSRG YGAQAPGGLSYPAASPTPHAAFL ADPVSNMAMAYGSSLAQGGK ELVDKNVSGRGWWEWGDA HRASDLSSASPD\HRFIPITKLKY YFAVDITMYVGRKLGLFFPYL
18498	48866	B	18605	1	1230	
18499	48867	B	18606	41	931	
18500	48868	A	18607	3	166	PRPFKSRLLPGIIGGEYD\QRPN PILP\GRGGFNDRFPPRPSGR P\TDGRLSFM
18501	48869	A	18608	212	1881	CLRVLLKRTWPVEVPETGAR P/TGGILRSH\LRQSLTCTWGY SSNTRFTITLNYKDP\TGDEET LASYGIVSGDLICLILQDDIP APNIPSTDSEHSLQNNQPS LATSSNQTSMQDEQPSDSFQ QAAQSGVWNDSDMLG\PSQ NFEAESIQD\NAHMAEGTG FYPSRTPCSW*LNPVEGQ VPHISLETLYQLADCS\DA NDALIVLI\HLLMLESYIPQ GT\EAKALSMPEK\WKL SGVYKLQYMHPLCEG\SSV T\LTCPVLG\NLIVVNAT LKINNEVRK*KGC SLLPESF\ICKEKLG ENVANIYK\DLQKLSR L\FKDQLAHPLLA FTRQAL\NLDPDV FGLVVLPLEKLRI FRLLDVRVSL S\AVCRDLFTA SNDPLLWRV FYICVNF RDNTV\RVQ D\TDWERTVQGR RAHTKEKESPKGR VLWMLAIRQTH TIPFYSQPLW HPRGHF PKLPAPFP PGIYSGGWNMDQ R\PTFPYV GRTQSSSLNSW VLGETPK PSFLRPR FDPVWPHF PGP*PPSL PRARAGP NDQIS PFRPQGSQ LIGRLSIH
18502	48870	A	18609	1	1065	
18503	48871	A	18610	1	1513	
18504	48872	A	18611	1	2247	
18505	48873	A	18612	3	421	
18506	48874	A	18613	1	103	
18507	48875	A	18614	3	435	
18508	48876	A	18615	268	501	QLECIPTWELWKEQERAMA GGGLKKIISATEKKLARMLLAP SASWCCSGP*VFHGST*WGKPG PVSVLLQGVLGK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
18509	48877	A	18616	3	296	EAMEAVILTCDPATPAASYQW WMNGQSLPMTHRLQLSKTNRT LFIFGVTKYIAGPYECEIRNPS*V PAASDPVTLESPPLLFNGLATIE TLRKRGNP
18510	48878	A	18617	3	1464	GAVRTWGRGFQTEKQASLLN FWNPPTAQVTIEAEPKVKSG KDVLLLVHNLQNLAGYIWK GQMKDLYHYITSYVVDGQIIY GPAYSGRETVYSNASLLIQNVT REDAGSYTLHIVKRGDGTRGET GHFTFTLYLIPWTLTYL*RS LQVSHYETPGKTAPPCGSTA**L N*PPDLTFLSPVLFLKKYPVPGQ AFQYPKGLKTIGSSITHL*DV LKGSCRENIPRAAK*D*N*EDS STACSK*GPQVETPKPSISSNLYP REDMEAVSLTCDPETPDASYL WWWNGQSLPMTHSLQLSKNK RTLFLFGVTKYTAGPYECEIRN PVSASRSDPVTNLNLLPKLPKPYI TINNLNPRENKDVLAFTEPKS ENVYTIYIWLNGQSLPGSVPR VKRPNENRVLIFTPCSRGIETG PYYQCEINRDYGGHPQLPSHPGM SSITTKHSGLYACSVRNSATGM ESSKSMTVKVSAPSGTGHLPL
18511	48879	A	18618	79	1516	
18512	48880	B	18619	96	1730	
18513	48881	A	18620	9854	11033	ESLCFPKTEQEASQSLSP*IIHLS CDTCTSYWLSRTHVG*QVGDA NSE*RMPEESKVPHTIFCYPH SVKLPMPYITINNLNPREKKDVL AFTCEPKSRNYTIYWLNGQS LPVSPRVKRPMENRILIPSVTRN ETGPYQCEIRDYGGIRSNPVT NLVCEYPLFLCGPHQLNSKRP EARPLSLSPVQV*TTLLEDIRPG HDSLPEILGRHSLNQEYKGRG ALVMGH*GPTACNERNRGIPQ AWA**T*MGFGCHLRCLGSEG HCVPLRDQEHPLPLDDITCGFIL FPPDGPDLPRIPSFYTYRSGEN LDLSCFADSNPPAEYSWTINGK FQLSGQKLFIPTTNNHSGLYAC SVRNSATGKEISKSMIVKVS GKWPASLAIGF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18514	48882	A	18621	3	1350	GRTAQLTAVLRKLLDPRLISTE ENTQAAETMGPLSAPPCTHLIT WKGVLTLTASLLNFWNPPTTAQ VTIEAQPPKVSEKGDVLLLVHN LPQNLAGYIWKQGMTYVYH YITSYVVDGQRIIYGPAYSGRER VYSNASLLIQNVTDQEDAGSYTL HIIKRRDGTGGVTGHFTFTLHL ETPKPSISSNLPREAMEAVIL TCDPATPAASYQWWMNGQSLP MTHRLQLSKTNRTLFIFGVTKY IAGPYECEIRNPVSASRSDPVT NLLPKLSKPYITINNLPNRENKD VLTFTCEPKSENYTYIWWLNG QSLPVSPIVWKPIENRILILPNV TRNETGPYQCEIRDYGGIRSD PVTNLNLYGPDLPISYPSFTYYR SGENLYLSCFAESNPRAQYSWT INGKFQLSGQKLSIPQITTKHSG LYACSVRNSATGKESSKSITVK
18515	48883	A	18622	273	2271	CGSWLMTQFSMDKRQGRSRV TITNTAVTSLWVPPHAFAPRS TLVSQQATSHTDNTQEMDSP GQEPGFAKEVEVEPGFQPLPQM TLLVPAMCLLLHGACSAKGFC AAPHFLLASPMGKGQVLPNFS FTLSEELDLPQSLKRNPKGCIA RAKPIAAERHKRLILHTSTKEN TLLDNRVIECLTMEAVAKFNIM KEREFGSHQALSPPKARWHIL WQKLMFTASLLTFWEPPTTAR VTTEAMPFNATEEEEEFFLLA HNLQPNLRTATWYKQGMHRH LYHYITSYVVDGEIHYGPAVSG RETAYSNASLLIQNVITREDAG SYTLHIIKRGDGTGGVTGRFTF TLYLETPKPSISSNFPNREATE AVILTCDPETPDASYLWWMNG QSLPMTHTLSKSKANRTLYLF GVTNTYTAGPYECEIRNPVSAS RSDPVTNLNLLPKLPKYITINN LKPRNE*GCLRPPTCEPKE*GTT PYIWWVKRFRSLPSPGVKRP LKNRNLIPTPVTRKWKQGPYS MWNYGDRYGGIRSLPSSPWNV LLWVQDLPRILPHFTYYRSGR KSSYLSGSGGTLNPPAQSVD N*WKSQFLTRGQKLFYSGHITT KHSGLYVCSVRNSATGRESSK SMTVEVSDWDITLNSTSTNSIF
18516	48884	A	18623	1	1131	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18517	48885	A	18624	1	603	MDIADPFSGFPMGMGGFTNMN FGRSRPAQEPTRKKQDPVPTH LRVSLLEIYSGCTKKMYQED/KI SHKRLNPDGKSIRNEDKILTIEV KKGISLPEALCG/TTVNVPTLDG RTIPVVFKDAIRPGMRKKVRGE GLPLPKTPEKRGDLIIIELEVFPE RIPQTSRTILEQILSSYLSYLSSP GLTRDLRAQGLDLSTSCGP
18518	48886	A	18625	3	1228	WSAAEPVDGDSGAGRRRGW PKTTYHPWAVARGASEKEIKR AYRRQALRSHDPKNKEPGAEE KFKEIAEAYEVLDPKREIFD HYREEALKGSGSGG/SGGGAN ATSFSYTFHGEPLAMFAEFFGG RNPFDTFPGQRNGEEMDIDD PFGSGPMG/LWGGFTNVN/GRS RSAQEPARKK/QDSPVTHDLRV SLEGDLTAAPVRRCTKKMKISH KRL/NTPDGKSIRNGDKILTIRSE RRGWKEGTQITFPKEGDQTSN N/PADI/VFVLKDKPHINIFKRDG SDVIYPARISLREA/LCVGCTV NCPHSGTGRTPVVFKECYQGL GMRKSSWENGLPLPQNTREN VGDLII*GFEVIFPERIPQ/TSRT VLEAGSFQYSYLEVPQGLTRGP FPFLKDFWDLFLPVVGP
18519	48887	A	18626	321	1121	GDVPSAPRRPSRRTPGCGSRG ALQPGPPRA/PPPEP/PPRGAAA AAPPAGPAAPAAQPPRRPPAQ PRSCPRRVPTPAWSPGRRGP RRSRRRPPGGGPAAPLRLSRA HSPAPPGSPYRPHGAGTSVAP WTRPPAARGTEADPGRCVPSAP GTAPGQMRGRGSATQRLHRGH STAPGAGGRCGRRPGGSGRPG AGAGPRRSTAAPPCRRRSPTG PRSPRGPRSARPARGSVGGPRG TPGKQPGPRA*TSGPPEPRCCG HARG
18520	48888	A	18628	191	653	KLEIQRLRLMTTECIRHTKQKK FGSPGLQPPLPGNAKSRADSTA LPALPAQKQKTKQQEPGESE*E PGGSSPSRMERAEAPASQ/PA GGTGQGWGAPHLGPALARR VTGPPQHGSPGPRTRTPYPAR C/PSRPIFVPAIVWSRLRAPGLP
18521	48889	A	18629	141	319	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, /-possible nucleotide insertion)
18522	48890	A	18630	178	722	PLGNVSCSHRSFQATARVDYSLI YVLAWGQKKEVWELRNWQTH ALMKLKNKLREPRTSVNKD/SP KSLLYSCSYSYFDEPVELRSSSF SSWDDSSDSEYETHLLHLKLV* PNLAVFNCRPTARRKPDYEPVE NTDEAQNSFCCTAHNLWSLTFP FPCLL*YETRARLESWSLSCLR YEHSSG
18523	48891	A	18631	2	367	QRYSSRRATPRHIVRFTKVERK ETMLRAAREKGRVTHKGKPIR LTVDLLAETLQARREWGPIFNI LNEKNFQPRISYPAKLSFISEGEI /NPQMLR/DFVTTRPTLRDLLKE ALNMERNRNYLPGRPL
18524	48892	A	18632	1	381	
18525	48893	B	18633	1	846	VGSMTGEASGNLQSQRKAKRK EARLTCLEPVEEPPSGGTHPPMC YLAPPMWKCQKQKPGTIGKEGDR DHNSLPAREENQTENESDELTE AGFRRWVITNSSRLKEHVVTQC KEAKNFEKSLKELLTRITSLLEDN INYLMEPRNTAREHREAYSSIN SQIDQAEKKEIPEIEDQHNEIKRE DKIREKRMKRNKQSLQEIWYD VKRPNLSLAGVPESDEENGIKL KNTLQDIIQENFNLAKQANIQI QEIQRTPQRYSRLRATPRHIIVR FTKVEKMKMLRAAREKGRV THKGKPIRLTADLSAETLQAR/ RTEWGPFIKILKEKNFQPRISYP AKLSFISEGEIKYFTDKQMLRD FVTTR/PALKRAPGKEGT*TL RDNRYQPLQKHAKL
18526	48894	A	18634	3	1170	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
18527	48895	A	18635	73	1504	QDLRLFLYKLDTFMSKLAHLQR FAVLSRGVHSSVASATSVAATKK TVQQPPTSDDIFEREYKYGAHN YHPLPVALAERKGILLMGM*E GRKYFDFLSSYSALSNQGVHC HPKIVKCSGRVKWDKIDL*HLE AFYNNGTLVNMRYY*TFST YHKVLPMNTGVEAGETA\CKL AIRKWGL/YTVKGIQKY\AKIV FAAGNFWGRTL\SAISSSTDPTS YDGFQPFYARDFDIIPY**SCPH MEQCSFKDPKGLAFHG*EPIQ G\EAQVVPDPGYLMGSAESS GTRDQVLFICLMEIQTGLARTW *DGLAVDYENVRPDI\LLGKAL SGGLYPVSAVLCDDIMLTIKP GEHGSTYGGNPLGCRVAIAAL EV\LEENLAENADKLGILLRNE LMKLTLP/SM\VTARKKEKGIY LNAHLAIKGNQKIWDA/WGKV CLRLQDNGLLPKPTS\VALTSRF APP\LVKEDELRESIEI\NKLTLS
18528	48896	A	18636	2	348	
18529	48897	A	18637	588	801	RTAYFCQYHTASVYSERAMP GCPEPSQA*ELQETGHRQVALR RSGRPPKCAERPGAADTGAHCT STDGRL
18530	48898	A	18638	175	510	NSESGPLWWLSCDNP\AKDRIY STEADGLGLPDQSFVVHRAQL* CVAG*LGTHSRFQEWAV*D*SD LLKAQLHFKVGRCVWEAGGGL EWVLGGRCRCRVPQPLETLIQ WGPW
18531	48899	A	18640	1	1431	
18532	48900	A	18641	202	994	RWQQQRLLLDSNIRLVVVLPIR YSFTFFRRALIRHY\SILL\AERQ RSFTQGNKYLDSSSPNFEGRV/R FRGKLGNYIPKQSF\RG/RRKFLF FPNPEDGIFS\KLLKREVPPSPM TDP\TMLTDM\KGNVT\NVLPM ILIGGWINMTFSGFVTTKV\PFPL VTLRF*A*WLQQGNRSYSPFRCI PG*/WFCIPGYFPQCILGFRSI/YT LWISGGKDN\GRV\NQSRRM/DR SRMTGASHGPW\ADSGRRFPN KRWEAL\ELTDHQWALDAAGE DAA
18533	48901	A	18642	97	224	LPTKSTWVAGKK*KKRSNIKD YSTPLTSYRSIRSHAFKIVAS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18534	48902	A	18643	117	457	IWGDVEKGKVKVFL* ^R CSQCHTV*/ ^E RGGKHKTGPKSP* ^V SFGRRTGQAPWDTLYTAANK\NKGIIWG ^E DTLMEYLENPKKVHPLDTKMIFVRHLRKRERADLI ^A LSKKLLN
18535	48903	A	18644	411	1054	VTGAQRLVTCRMGKQNSK\LA ^P EVMED\LVKSTEFNEHELKQWYKGFLKDCPSGRNLNEEFQQLYVK ^F FPYGRRLPSFAQHAFPNLSTRMGDGTIDFREFICALSITSRG ^S FEQKL\NWAFNMYGPGWVMGKITRVEML\EIHRGLSYQNG* ^G TVIMMKMNEDGLTP ^E QQRVGGQDFSARWVRNKDDQIYTGIDFKGSCQRADPFIV* ^L L\QCDIHK
18536	48904	A	18645	3	475	GAEGARGGSSYSEMAETVADTRRLITKQNLNDAYGPPSNFL ^E IDTNLPIFKLKESTVRRRYSDFEWLRSELERESKVVVPLPGKAF ^L RQLPFRGDDGIFDDNFIEGKKTRGWEQFINK/VSLGHPL\AQNEPLFFHMF ^L QDEIIDKSYTPSKIR
18537	48905	A	18646	1	695	LRARSLRDRCARAPCPHGGQQRRRRRLNAEGAEGARGGGSSYSEMAETVADTRRLITKQNLNDAYGPPSNFL ^E IDVSNPQTGVGVRGRFTTYEIRVKTNLPCFQ ^S *KNLIVRR\RYSDFEWLAKWNLERSK\VVVPLPG\KAFLRQLPFRGDDGNILMDNFI* ^E EERKIRGWSSFLNKVAIGHPL\AQN\ERC\LHMVFYQDEIIDKLLLP ^S KNKAMPWKFGPRKGAKNVDY
18538	48906	C	18647	3	474	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for peptide sequence	Amino acid sequence (X=Unknown, * = Stop codon, / = possible nucleotide deletion, \ = possible nucleotide insertion)
18539	48907	A	18648	156	1254	RPLHTLEVLRMRTRKRLVTKAA ASAARAQPAEPRDRKYDKHLS YLATWGRSAGRAGSPRGARGR ELARAPVSLPAGVPGRGSAAG HSSEARTGPNKMGSSREPPT EKVPCPRGLSPTRVGHQVHGT LGAGPNELHPSGAPAGRCRPGR REAKLGDAARSEASAHKFHII DSLSPWNPTAMEMLMPKKNR IAIYELLFK\EGVMVPKK\DVPI PKHPELAEQKCAPTFHVMK\A MQSLKSPRPT*KEQFAWRHFY WYL\TNEGQYLRDYL\HLPEI VPAHPYGRSPRRLARPRPKKV WKGEATLRDFTRGEADSLCH S\DSYRRSAVPP\GA\DKKAEAG GLGQKPNFQFRGGFVRGRGQP
18540	48908	B	18649	1	1053	
18541	48909	A	18650	1	529	MGRYMEREP\QGNHRRSGLSG ERCSHMGGLIERRELQETETRK EGVVEWCWLEKVLATITKPV RGDKNGGTQVVKHRKMPRY PTEDVPQKLLSHG\KKPFSQH RKL\FLYRRHARNLSLPQPELII SDVK\IPRHPADA*LEEQLSEP E\HSEGSTY*RIPEKVLSPAIRP
18542	48910	B	18651	258	363	
18543	48911	A	18652	197	398	ARMSQEKDFHKVMSALKARTG HLHFFCGGMSSVKVGQGFSLLL *FFSYFRPSGCILPL*ELPEARCP
18544	48912	A	18653	215	932	GTQSCNQKVLNSANNLQELGIG PKFQMR\KQPLAPMQPNRGTS LGRSIPCPVLCMRKIHLRPQV LRPTSPRNPISPLNRVSEVSDHA GTPALVLHP*RQVPLFWGRGK YPNPFSLCLYPFSAFLGGKKHP TPSPSP*VASPLF*RSKYPNLVSL CPSPLFPRPDLLSLWPNFLRTP TSYISVPQSLISMRLPISAPQPLI STTQPLSRFSGRSLLQVPEIWPP GQGMPAARDSS
18545	48913	A	18654	1	378	
18546	48914	A	18655	14	380	
18547	48915	C	18656	228	260	
18548	48916	C	18657	99	335	
18549	48917	A	18658	55	474	RQVPLFWGRGKYPNPFSLCLYP FSAFLGGKKHPTSPSP*VASPL F*RSKYPNLVSLCPSPLFPRPDL LSLWPNFLRTPSYISVPQSLI SMRPLISAPQPLISTTQPLSRFS GRSLLQVPEIWPPGQGMPAAR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18550	48918	A	18659	1	187	AELATGNVKEASGTPEEKAGSVLG*ACFAGP*ERCCWQNN*DGIISIQSYCLCNLGCFTQ
18551	48919	C	18660	1	357	
18552	48920	A	18661	3	148	
18553	48921	A	18662	1	312	
18554	48922	A	18663	149	457	
18555	48923	B	18664	1	675	
18556	48924	C	18665	110	928	
18557	48925	A	18666	495	817	LTSRSTRIIEKSCSSLPPL*DKPQPHLQHTRTSKRLNCSSQVFLQNLPEELATSSRNLATGPRNACSPGFLLSHIPSVWDPTGNRTVQLTWQPLPELELWPKAL
18558	48926	A	18667	228	3021	VFDRTQNVQGRIMEAPEYLDLDEIDFSDDISYSVTSKLTPELCRRCDITQNEADRSVSSSSWNCIGISTLITNTQKPTGIADVYSKFRPEKRVLPKIHQPETLENNESDDQKNQIVGEYQKGGESDLGPQPQELGPGDGVGGPPGKSSEPSLSLGELEHYDLMDLELDVPIYKSSQQLASFTKVTSEKRILGLCTTINGLSGKACSTGSSSSSSNMAPFCVLSPVKSPHLRKASAVIHDQHKLSTEETEISPL
18559	48927	A	18668	1440	1764	ERSTYNLRSSDQP/RPRNLTNFKS/VDKGDTFYPPWTHNSGASHGLGR/RLPWC*ELATSARNLTPRPRTAGSPGFLLSHVPSVWDPTANRTVQLTWQPLPELELWPK
18560	48928	A	18669	1	3255	MLTLTGAGGESWIIRPGNLLEQLGAETLGRRQEPGDEVTAHFLQGVINMGVPVYPGAHSSNMPGSVSPILGHSVKLFEEYYPVGDPLMGSGRPHITPRKKIWSDLNASHDLYLALDWTPLPEQSEPGPLAAWKPFQAEETYCKCAEGNENTPFDLRKGTLPCCRNLERARQAYMHIEEKFPFELTEQHICEFQSMCYVLVRVLGACQSQTWILEPDGVSGPSKGASEAIGQCQSSAAKPRRSKGESVREPWA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
18561	48929	A	18670	1	1442	CSEYEDSSPAPVPATDLSSTLSS SVPQPDGTGTSQQLHPLDPWHE LLRAQELQGATNHHKGYSHAEH EHAGLGVQGGNGALAFSNSGH RHAVPTISSGTGRRRTPSAFAFG LLNLHQWFVSGFQAFSDRLKA ALSASLLLRFGSDWLPSSAC KCLMLGLHFFVIVGNICATLKEK YSSMLHLDVTMKNKEKTRTL QKRKKGMPHPA/S*GPKHSCH HSPCQCPSSAK/SASELQGSWT PFGGLLTRTRMKFGAKTRDL QGTSLGRSLPCPPTLCSMRKIHL RPQVL RPTS PRNISPISNPRQR QVLSMDPKLRHRSRTGK/DSL LVFNHCRDTSIIHPCFKGVPR RDACLGPSPLAASPAFLEKGGD LINLAFKVYNNRKKLQFLASTV RQTAATSPAHNKFNQPEPQRP GVPEPPPTGACYMCRKIWPLG QANARSPGFLSRVPSVRDPTG NRTVQLTWQPLPEALELWPKA
18562	48930	A	18671	140	327	
18563	48931	A	18672	95	115	IIRHLCND*TPREGCLPSP*PAW SDTFETWVNNQASLQ
18564	48932	A	18673	218	674	MPISRPTARFKRIKVYYHSPAT AWFSKAYKLPLQFPHTCPKTR QGLQVTSGSAPYQPNCFVYPPR VAKTKYSPILNTSLHNPLLCSGS QTCFLY/SFLCTFHPSLSLSLGL TLTPIRLSKLRGLYCHKASQTA PITSIKPKFLPHLLPISA
18565	48933	A	18674	1	268	
18566	48934	A	18675	1	458	
18567	48935	A	18676	3	461	LLLTSQSLFGGLFTRTRMKFGAV TRIGGPPLGNQSPSSCSLLHEKD PPTSGPQTDQPKKHLTNFKSA ARPTFLGQGVPLNPFSTLS/E QVLLS*AARTPQSLISTPQLISV PQSLISVPQPLLYFSGGQEP PPP LLCVSSLSFRLASFTM
18568	48936	C	18677	156	329	
18569	48937	A	18678	449	667	
18570	48938	A	18679	79	311	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18571	48939	A	18680	1	693	MAPTNCKGSRKCGRPHEQMPPH PYLPLLTFLSDSARLHPGEINSR VPHTKPVWWSLHTDAYEIWYH DSDWGDLPWEINPLSSCSLLHE KDPPTTSGPQINQPKHELMNFK SGPHWKSDCPTRQPLPGLELW PKA/HLTDSFPDLLSLAAED*CC LIALEAPWITDAELWITLTVED SQLYEDTLAGRSVLIKNLTP*TL Q/PLDGLDPT*SSIVPQLPSACRI LPTGFTVPE
18572	48940	A	18681	328	865	
18573	48941	A	18682	451	1238	TALLTQSLFGGLFTQTRMKFG AVTRIGGPPLEGDQSPVLLFFVPR ERSTYDLGPQTDQPKKHLTNFK STSFVFSSCIPPP*PSSISLLPPW/T TDHAPLTISL/TT*SPLPCSMPI/ ASHSML*KD*SLSLACYSMAF *SL*TLLTIPPFYLS*NQRRFTG* FRICALSTKLFCLSTPWCQTHIL SYPQYLPQSQILFWISNVLSLLF LCTLHPSLSLGLTLTPRLS KLPLGYCRKASQTAPITSVKPK FLPYLLPISA
18574	48942	C	18683	870	1037	
18575	48943	A	18684	933	4323	AASHLCGTPLEIGLSNSPGSHSQ SPWNSGPRLSDCFPDLLG*VAE D*HCPIASEASWTVELWVTLT VEVAATALLILEALKITSYAPLT LYSSHNFQNLFSSSHLLT/PYTFC PQ/GPFSYTHSLLSPQSPLLLA QTSIRPPTLFLPHLTPMTVSL*/ ILTFIFPHISFFPVPHDHTWFD GSSTRPNRHTPAKAGYAIVSST FIIEATALPPSTTSQQAKLIALTQ ALTAKGLLVNIYTD SKYAFHI
18576	48944	A	18685	849	1944	WQVPLFSGRGKYPNPFSCLYP FSAFPGKRQELATSARNLSDHQ AKECLQPRIPPKPCPIFAGPHWK SDCSTSPGQPLPELELWPKA/H LTDSFPDLLGLAAIED*HCPIAS EAPETITDAELPVTLTVEGKSIP CLIDTGATHSTLPSFQGPVSLAP ITVVGIDGQASKPLKTPPLWCQ LGQHSFMHSFLVIPTCPLPLGR NLTKLSASLTIPGVQLHLIAAL LPNPKPPLCPLTSPQYHPLPQDL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18577	48945	A	18686	2	377	KGATIVYALDTLFIMEMKHEFE EAKSWVEENLDFNVNAEISVFE VNIRFVGGLLSAYYLSGEEIFRK KAVELGVKLLPAFHTPSGIPWA LLNMKSGIGRNWAWASGGSSI LAFTGLHLLEFMHL
18578	48946	A	18687	215	1135	PITLRRHLFFSGIGRNWPWASG GSSILAFTGLHGMKIVF*/HFF GNILFSIKVMNIRTVLNKLEKH YLN*KLHNSKIHFPLPDHVS GGGDSFYEYLLKAWLSINLRR DYKMLKNKCFSQAIETHLRKS SSGLTYIAEWKGGLEHKGMGH LTCFAGGMFALGADAPEGMA QHYPVSTVQENNPYSFPCPLV MKLGPEAFRFDGGVEAJATRO NEKYIILRPEVMETMYMFRL SGSDFSSFLLLPPQASSCFQTLF DLFKVPDLSLILEFRRHSSRQP YSTDQPFYLVGKRILFCPLT
18579	48947	C	18688	304	400	
18580	48948	A	18689	16	450	
18581	48949	A	18690	1	777	GHSMDMRVPAQLGLLLLWLP GARCVIWMTQSPGTLSPGER ATLSCRASQRVNSNYLAWYQQ KPGKTPKLLIYGASNLETGVPS RFSGSGSGTDFTITISLSQSEIA MYCYCQYNNWPHPS/TFGQGT KLEIKRTVAAPSVVHLPGPSD EQLKIWELPSACVPA*NNFYYPQ SRPKVQWEGGITPLQ/SG*LPQE SVHRGRTRQGTAPYSPQAPW TVRQSRJTEETQSLTACEVTPS GALRFRPVHKGAFNRGESF
18582	48950	A	18691	3	688	HASADAWAANAEEHRHDP GTLREYKVVGRCPLPTPK/CHT PPLLPACEIFAPNHVVAKS/RAF WYFVSQKIKMKKVQGGKIGL LVGQVF*ESSPLR/V*KNFRGSW LAAMDSRERAPTNMLPGNNRG P*PPAGGCSTQLLTRDNGVAPG TGAPKPHFHFRIERLEGRFAG QQSCRRP/ALVQSSFDKIKFP ACPNGVLRRQHKPRF/ITKRPN TFFLGAGPSSGVCPK
18583	48951	A	18692	1	784	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18584	48952	A	18693	1	4713	MQGPYLLWLPDSLEEGKEGL YLGNCIHTCLTVVPEDAFFPHF LTQHSGLTHLPSSDIPSHFMNNS TGRLAQRLGTSTEAFLSPEVM VFVHARNATVRTAMSLIERAK NCGHIPFFFTQGHYVLAKEQ VQRSRNKQVRELFPDGFSIHHA GMLRQDRNLVENLFSNGHIK V LVCTATLA WGVNLPAAHVIK G TQIYAAKRGSFVDLGILDVMQI FGRAGRPFQDFKFGEGIIITTHDK LSHYLTLLTQRNP!
18585	48953	A	18694	313	489	SSCFKLHFQQLFKNCNTQMRN QIGFLRF*NNLVMLSSSVTNQ LELQKKIILLTKMQ
18586	48954	A	18695	1	851	ACGWALAQRPARRAMVAGID AGRSILGVLVSVCLLHCFGISC FSQQIYGVVYGNVTFHVPSNV P LKEVLWKKQKDKVAELENSEF RAFSSFKNRVYLDTVSR*PSLST T*TSSR*KMKYEMESAKIVTDIT MKFLPYV*VSFQSPTLTICALT NGSIEVQCMPEHYNSHRGLIM YSWDCP/MEQCKRNSTSIYFK MENDLPQKIQ/CLSNP/LFNTT SSIILTTCPSSGHSRHR YALIP LAVIPTCIVLYMEWVF*KCARN PDRTLQLIGNRRMKTTA
18587	48955	C	18696	35	181	
18588	48956	A	18697	75	344	PQVLRPTSPRNISPILNRVSDHA GTPALVLHP*RVQVPLFWGRGK YPNPYLCAPIPYFRT/HNLISLR PNLPCHPDLVSLCPDPFPAFLE
18589	48957	A	18698	1	268	
18590	48958	A	18699	39	376	QYISELQFLASTVRQTPATSPA H KNFQTPEPQQGPPEPPPPGAC YKCWKSGHQAKECLQGPGRK PRPISGSHSQSPLELWPKA/HLT DSFPDLLGLAAED*HCP/ASEAL
18591	48959	A	18700	2	295	CQTTQGRLLTAGTPL*SFTHVS RVSDHAGTPALVLHP*RVQVPLF WGRGNHISGTQELPNT*TAV/V QAF/LPEPPPTG/CLLHVPEIWPL GQGM/PAGQDSS
18592	48960	A	18701	81	402	VKFGPEIWCRRSDQGRGGVGT SLGRSIPCPALCSVRKIYLRPL VLRPTSPRNISPILNRDPTVQLT WQPLPEPLELWPKA/HLTDSFP DLLGLAAEDRCCPIASEAP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, v=possible nucleotide insertion)
18593	48961	A	18702	165	439	PPRQAKMQNLAAPGSHSQSPW/TLRPKAL*LTSPQIFSA*RLKTD TARSPRKPPSFQGPVSLASITVV GIDGQASKPLKTPQLWCQLRQ YSFK
18594	48962	A	18703	284	511	IILVVKWANGRLCLTSRHSFTH QSLPS/PLCPVQLVFN/SRLSPQS QPQASLSLSNLPFLQTHLTSFPL PRLLLARPK
18595	48963	C	18704	414	557	
18596	48964	A	18705	1	1284	MNFEGTETLHCNGHCKVIAMT LGNQEVNQRFNSTGTTGPMEG MWLLSSNSHHSLKYAGALAILS AFQYQERGSQAGHRDSWPETK ETHFICGPKTPALVTDWEGSLP L VFNHCRDASLIHPRFSGVRPR RDACLGPSPLAATPQTITDEL WVTLTVEVWDIST/LFPGN*SH A/TLPSH*NLITLTP/NAN/AIPQ HALKGLKPVITRLLQHGLLKPI NSPYNPILPVQKLDKSYRLVQ NLRLINKIVSPHPVVPNPAPFAS QITQAVSQALGIQWNLHIPYHP QSSGKVERTNGLLKVHLTKLSL QLKKDWTVLLPALLRIRACPR DATGYSRFELLYGRTFLGPNLI PDTSPGLDYLVPVLQQAQAAAN LLLPTPDQPHEDTLAGRSVLV KNLTPTQTLQPRWTGPHFIYSTP TAVCLQDPPH
18597	48965	B	18706	1	933	
18598	48966	A	18707	3	435	TKETGFHIGPKTPAPVTDWEGS LPLVFNHCRDTSIIHPCFKGVR PRRDACLGPSPLAASPAFLKQ QDLINLAFKVYNNRKKLQFLAS TVRQTAATSPAHKNFQMPPEQ RGVVPEPPPTG/CLLHVPEIWP LGQGMPAARDSS
18599	48967	A	18708	2	111	
18600	48968	B	18709	1	595	
18601	48969	C	18710	1	1344	
18602	48970	A	18711	227	385	VPILPQPLLLHPAIFLSPPLTPG PAYSFVP*LALPHLPSNLLKR WLEPKA
18603	48971	C	18712	148	258	
18604	48972	A	18713	215	693	
18605	48973	C	18714	1	816	
18606	48974	B	18715	1	513	
18607	48975	B	18716	1	1452	
18608	48976	A	18717	1137	1303	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18609	48977	A	18718	2	2107	IDMIFTGPPSTPKHKKSQKGS AFTFPSSQSPRNPEYVARPSTSEI EDQSMMGKFVKVERQVQDMG KKLDFLVDMHMQHMERLQVQ VTEYYPTKGTSSPAEAEKKEDN RYSDLKTIICNYSETGPPPEPYSF HQTVIDKVSYPYGFHAHDVNLNLP RGGPSSGKVQATPPSATTYVE RPTVLPLTLDSRVSCSHQADL QGYPYSDRISPRQRRSITRDSPT LSLMSVNHHEELERSPSGFSISQD RDDYVFGPNGGSSWMREKRYL AEGETDTDTPFTPSGSMPLSST GDGSDSTVPLFLSSEILQKQVG QSITSMGLFSLRGPSMKLCMGL ACVLSLWNTVSGIKGEAKKEK GMTFLPTTDSKKFFLSLVTSYS SFAFHKFSVAVYNISNLKTVDP AKFPTRYCYCLNNRTNDLSDF ALLVDHGNSTSYLTFIFKSTSL SVNQSNESDCIFCYMTGKSGR NLSDFWEIEEKYPIINYTFTSGL SGVLALLLTQSLFGGLFTRTRM KFGAVTRIGGPPLGNQSPSSCSL LHEKDPPTTSGPQTQDQPKKHLT NFKSAARPTFLGQGQVPLNPF FTLS/EQVLLS*AARTPQSLISTP QPLISVPQSLISVPQPLLYFSGG QEPPLPPPLLCVSSLFSLASFTM GAFTHGTQTPSTKATAPRYPQ TGDLSAEWPFAGEEPVLVPRP
18610	48978	A	18719	828	1063	RHSQAAED*HCPIALE/VPQTIID AELRVTLTVEGYSLPPGCLRGL MLSVSGFSRSTVQAVSGSTVLG SGGQWFSCASV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, =possible nucleotide insertion)
18611	48979	A	18720	183	1140	LGSGDLPWEINPLSSCSLLCEKH PPTTSGPQTDQPKKHILTNFKSG ETKEMHFIRGPKTPVPVTDWEG SLLLVFNHCRDGLSDHSATFQG CQT/MAGMPALVLHP*RVVPLF WGRSKLLLARLS*VPILPQPLLL HPIILLSPPLLTPGPAYSFV*LS MSIHQVVLRPDEQGPGEQEQPP LYVMEPGEINSFIAHTKPVWWS LHTDAHEIWCHDSRGTSLGRS IPCPALCSVRNIRLPQVLRPTS PRNISPILNQERQRRCLFVDPK LRCQSRGTGKAAFSWCLIIAGTA SLIIQPHFKGVRPCRDACLGSPS LAASPAFLGKEQAAPCQALGPG NSSASAPPPYNPFITSPHTRSG LQFRSVTSPPPAQQTLLKKVA GAKDIVKASLAPALAQGVPGTP QATASEGASLKSWECLCGVNL ATAQSARVKEACQEACQSLPRF QRMYEKA WVPKQKTAEVELS QRASTRVVLRGNVGLSPSRVF SIALSSGAVGGVHCPSDHRMIE PAAFNL SMKNPQRQSCSLRA
18612	48980	A	18721	372	906	LRSA DLPWEINPLSSCSLLHEKD PPTSSGPOTDQPKHILTNFKSE KKETRFIRGPKTPAPVMD*GRQ PSLGV*PLQGCLSDYSRPFQRC QTTQGHLPWSFTLSSKSHFSGG RGKSLQVPEIWPPGQGM PAA QDSS*AVPICAGPRWKSDCPH LAATPKAPGTLAQSLTPSQIFL
18613	48981	A	18722	983	1980	KFGLVQLTLGKPLPELELRPK A/HLTDSFPDLLGLAAED*HCPI ASEAA*TTDTLRLVTLVEVW DIST/LFPGN*SHA/TLPSH*NLIT LTPLNANI/AIPQHALKGLKPVIT RLQHGHLKPINSPYNPILPVQ KLDKSYRLVQNLRLINKIVSPIH PVVNPNAFTSQITQAVSQALGI QWNLHIPYHPQSSGKVERTNGL LKVHLTKLSLQKKDWTVLLP LALLRIRACPRDATGYSRFELL YGRTFLLGPNLIPDTSPLGDYLP VLQARQAANLLPTPDPQPHE DTLAGRSVLVKNLTPQLQPR WTGPHFIYSTPTAVCLQDPPH
18614	48982	B	18723	1	271	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, \ =possible nucleotide insertion)
18615	48983	A	18724	803	1158	CSWHDRFPDWKAGNLLSLAA* D*HCPAIEAP*TITDAELQVTL TVEGSGDLPWEINPPSSYTLCE KDPPTTSGPQTNPQPKHSHQFQ IRDKGDTFFYPWTHNSGASHGL GRQPSLGV
18616	48984	A	18725	1855	2506	GASPSVWDPTENRTVQLHLGS HSQSPWNTGQSRDLTSFPDLL GLAAED*HCPITSEAPLITTDAR AMG*LTSTVEGKVPFLINTEAT HATLPSFGQGPVSLASITVVGID GQAF*TSCLKLPNSWCQH*TIRR FKHSFLVIP/TCQVPLLG/EDTLT KLSASLTIPGLQLYLIATLLPNP KPPLCPLVYPHLNPQV*DISTP SLGDRSCTPYHLIKT
18617	48985	A	18726	2	979	TSTMAVGNKRLTKG/GKKGA KKKVVDPPFRKDWY*RRKHPL MFHVRNIEKDVGPSRTPRDPKL QSDGLKGSVCLKVSPAELPE*L KFAFRKK/LITEDVSGVKTCPD LTSHGAWDLYP*QNCSCMVQK MGRPMIEA/HVECSR/LDGYLL /RLFCVGFY/LKNR/NISDHGRPSY AQPPNRVR/QIR/KKMMEIHDPO RLQTNVP*KEVVNKLIPASIGK/ DIEKACQSIYPL/QNVFVKKV KMLK/KPKFELGKLMELHGE SSSGKATGDETGA/VERADGY GPPVQESV/GKFLPIVGNRSGH CVKKEKQSSRRRDFGVSVHPRI
18618	48986	A	18727	1	615	ASTAAPRMILLFQPRYRTLQPO RLLMPKKNR/IAIYELLFK/EGV MVPK/DVPIPKHPELA/DRNV NLHVMKAMQVSQSPRG/YVKE QFA/WKISYWCLTN*GYQGV ISSRDYL/HLPP/EIVPA/TPLR RPED/SGRPSA*KGLEG*SDLAR LHKNGEAGQLPYRR/SAVPPG /ADKKAEAGLGQKPEF/Q/RG GFVRGRGQ/PPQ
18619	48987	A	18728	3	395	SAEVGAAETTLTLERRTVQSLEI DLDSMRNLKASLENSL/GILLHL ESELAQTRAEGQRQAQ/EYAL LNIKVKLEAEIATYRRILEDGE DFNLGDALDSSNSMQTIQKTTT RRIVDGKVVSETNDTKVLRH

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18620	48988	A	18729	323	1973	PCMWIGFAAVRKGLKSSSASC GCTRRVRGTWWQGLSRVCVA RNEEVRLWGLCWLGSSPPAGW NNVFYMLISADVLACLEPRAN KEAANELAGAVDLGWMANVR RNPDMVSTHGLTHFHLRKTP PRGEKTCELASQQPLIEATTKT KSVAVSHILTYTPPTLNGVA SSRVHFSFWPPTLQTGLEQGS SFTICFTTSTNYQSLHSIQPHSH VQFISSTAKVYAVLRLGSGRTS VSFSTFSWGWGSGGLAAGMP GIDNARLAADDFRVKYKTEL MCLSVESNVRGLHKVTDNTN TRLQLETFMEALKEELFMKK NQEKEVKGLQALIASSELTMEV NAPKSQLSNIMADLPAQYDEL A\RKNN*EELDKYWSQED/IEEHT TVVTNTSLLEVWSC*DARLT RRTSPGLWRFDLDSMRNLKAS LENSL/REVEAPYAL/QMEQLAN GILLHLESQGLQTPRTEAQRQA Q/EYEALLNIKVKL/EAENATLP GRLLGRMAKDFNL/GDS\LDER NSFQNLQKNTNTPPGNV/DGKV V\SETN\DTKVLRLH
18621	48989	A	18730	1	897	MGHHRQSLSPVLSLYSPDSMS FTTRSTFTTNYQSLGSVQAPSY GARAVSSAASVYAGAGGSGSRI SVSRSTSFRRGMGPGLAAGM AGGLAGMGGIQNKKTMSLN DRLASYLDRVRSLETENRRL KIREHLENKGQPVKDWSHYCK TIEDLRAQIFANTVDNACIVLHI DNARLAADDFRVKYETQLAMR QSVENDIHGLRLKLEIEALREE LLFMKNHIEEVKGLQAQIASFR LTVEVDAPKSQLAKIMADIRA QYDDLAKGNREELDKYWPQFQ EENTTVVTQSAEVGAA
18622	48990	A	18731	3	423	SLSPVLSLSPDSMSFTTRSTFT NYRSLGSVQAPSYGARVPSSAA SVYAGAGGLATGIAGGLAGMG GIQNEKETMQSLNDRLASYLDR VRSLETENRRLKIREHLEKK GPQVRDWSHYFKIIEDLRAQIF ANTVDNAR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18623	48991	A	18732	663	2089	AFTTRSTFSTNYRSLG\SVQAPS YGAGPGRAARPASYAGAGGSG SRISVSRSTSRFG\GMGSGGLGQ RELAGGLAG\MGGIQ\NEKETM A/QALNDRGLGLFTWDRVRS LG DRRTRKLGRAKFRHFGRKKG PQVR\DWSHYFK\IEDL\RAQIF RKYLLDNAPHPFLQDLTIAPSL LD*F*EFKY*GQSLAMRQFLWR NDIPLGSAKV\IDDTQYHTDLQ AWRQRFEAPQRRELALSMKKE PRRRKLKGLSSPRLPSSWG*PVE VRLPPNFQDLRQRLADIPGN MNELGSKKNPRRKLQSTWSQ QI*GRAPQLVTTTSLLEVGSLLK TTL/TQKLRTSPGPWKIRPWTS MKKS*KAQ\GRNSP*REVGRPP YGPYKMEASF\KRGSL\HP*SQS W/QTRPGAEGTAPQAPRSYEGP C*NIRSKLEA*DRPPYPPALLE D\GEDF*SLVDPLDSKQLHAKPI QKTTTPPG*VGLGKVVS
18624	48992	A	18733	53	1100	NFRVEAGVRGVQKQKTCFAFKV LES\GKFG\GLALAVAGGVVNSA LYNVDA\G\HRAVIFDRFRGVQ\ DIVV\GKGTH\ALIP\WVQETQLS FD\CRSRPRNVPSQSTG*AKDL QNVQHHTAASLFRACRQPSFPR IFTSIGEDYGWSVCLPSITTEVL KVS\GSLWMLGELITKRE\LV RQV\SDDL\TERAA\TFGLLDDV SLTHLTFGK\DF*AVEAKQVA QQEA\EKQICWLEKAEQKK\ AAIISAEGDSKAAELIANSLATA GDGLIELRKL/E*AAEDIA\YQLS RSKNITYLPTGQSVLLQ\LPQLR GPPLPCTSRGLDLGPQRLILNN SLSFLPTPEINCEIFMIGLK
18625	48993	C	18734	222	458	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: (in USSN 09/540,217)	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=-possible nucleotide deletion, \=-possible nucleotide insertion)
18626	48994	A	18735	2104	2758	QFCPSRQKGLQKTRHFVAGH GGDFLFRSPTHAFPFCVPLFLP P/VTIVRPCPFPS*VLSSSPRNSQ NTIPRSPFLSPGTLRSRPA GSRDP GNPAPGSNTRLGPTAPVSR LAP VDIGFRSTDCWSLQPVVPVNG SRPAPTNP RSRSTPVDPGSNTRL GPTAPVSR LAPV/V*ALGPLTAG PYSRP/CPVNPGRPAPTNP RSR STPVDPGSNTRLGPTAPVSR LA PVDIGFRSTDCWSLQPVVPVNP GSRPAPTNP RSRSTPVDPGTRTT PEGL
18627	48995	A	18736	2	280	AMGFIVAPSLGCF/VGSRFVHG EGLRWYAGLQKPSWHPHWV LGPVWGTLYSAMGYGSYLVW KELGGFTGVSRASEVAPPEPPP GSSVLCFLHA
18628	48996	A	18737	331	972	TAAAAAMAPPWVPAMGFTLAP SLGCFVGSRFVHGEGLRWYAG LQKPSWHPHWV LGPVWGTLY SAMG*VGVHWPGDKPGLQGE AWPRTE DTGQALNWA WPPIF FGARQMGGALVNLLVSIGAA GHTTLGGRGAS/QWLAARLLYP \YLGLAWPSTTTTQTTCVWR/D NHGWHGGRRLARVSARPTMG LQLHQAGAITLVMW WPSRFHD HWAC
18629	48997	A	18738	1	603	
18630	48998	A	18739	1	1782	
18631	48999	A	18740	237	876	CESFCWHHFFWDIFNLVTA PF LVHVDYQGFESVAKKYDVMN DMMSLGIHRVWEGFSCSGKMH PLPGDQLLDVAGGTGDI AFRFL NYVQSQHQRKQKRLRAQQN LSWEEIAKEYQNEEDSLGGSRV VVCDINKEMLKVGKQKALAQG YRAAHKSGVILDCLWFPPILHPI AQICQLYLQNTSGIWPSPYLY CYHLLVQATIPSYLDCNSL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18632	49000	A	18741	112	995	VLGSLSQEKRAETHFGFETVS EEKGGKVYQVFESVAKKYDV MNDMMSLGIHRVWKDLLWK MHPLPGTQLLDVAGGTGDIATR FLNYVSPASEKTEEAVKGP FILGKNLPKSTRMKKIPWAG/TR VVVCDINKEMLKVGKQKALA\ KDTRAGLAWLL*DAEELPFDD DKFDIYTIAGIRNVTHIDQALQ GSSFGCLKPGGRFLCLGFSQVE QSP\LSRLYDLYS\SRVIPVLGEV IAGDWKSQYLYVESIRRFPSQE VKFKDMIEDAGFPQ/V*LTKV*H QGIVAIHSGFKL
18633	49001	A	18742	117	403	
18634	49002	C	18743	62	370	
18635	49003	A	18744	179	527	IQEPPV1**GLHMVHNFTIFVSS YFKFESTFAISFLKVNT/CFFSI* IKSLDEQCVVGKISKHWTGILR EAFDADNFGIQFPLDLVDKMK AVMKVGICGNLVKQGNFTMT HSN
18636	49004	A	18745	3	1242	AAPQAGLSPVAIAAQLHLHS TQCSSPNTCCLPRRTRATIIYSR WSYHPLGSPV*SP*PFQEAS/AL TLPPACSFYGPLT*FQPK*GSFP LSQ*MEYTIGLYT*TFHCPGTSR RQIPSSYLNCDAFLPLL/SNPP QCRPFTGVGLVDVLTGFETNN KYEIKNSFGQRVYFAAEDTDCC TRNCCGPSRPFTRLRIIDNMQQE VITLERPLRCSCCCPCCLQEIKS LDEQCVVGKISKYWTGILREAF TDADNFGIQFPLDLVDKMKAV MIGACFLIDRNCSPAMEQSWM ENYFDEMTIGFRRSVITNFSEL KEHVLTHCKEANKNLDKMLDE WLTRKNSVEKTLNELMEVKTI NEKLTIGKISKYWSGFVNDVFT NADNFGIHPADLDVTVKAAM IGACFLFAFRLGSELHN
18637	49005	B	18746	277	2415	
18638	49006	A	18747	102	196	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18639	49007	A	18748	897	1656	SNAGLRHVCTSCQSGRARSCCH VGLHTPWVS*VPWHPWGIWR GDPQKQSRKCCVPGGAP/QK GGDPEPQPSLSVSWNLGSCA GFRAVLPRKPQRKQVWLFASSA GTAATEPPR**LAWKADSGGDP WQQPQQSARPHA*TWTRGD GAPPGRVA/QGRGTAGGASAG VSSGRSRGSPQTGFQALQSCLE ASRRPPVACNPHAPAGALPAQ AGNRATLMTGSLQPMIMYEE AQLRLEELCTKARLNCQWFL
18640	49008	A	18749	756	884	CLQRLPPGFRROPSKYRRNRG KSGKG*RPSPVATWQPDYNI
18641	49009	A	18750	1826	2772	RRVLEAMGPSRAAKVLSVCVR SRIGPLICSQRHPATSKTKPQGR PPGEQGTPRDNRPRNNRPARSA TPRGA/PQGAAPRPGEEPAPQT IDKGPPSPSGHTRRLARSGNQ PPERHTPAAGGKTRYVRQSVL HRARGGEPVRMPRLPRIA EA/P APDRVECF*VVQSPAREMHSCQ ADSMCPVW*GRIWRSAGSC*SR SEKILVWIPQSLQAHAACPSEA HKMPGNPRDGGAGICKSSPGG KGERRKVEGGSTTRAGTSRDS VSKRHANTMGEQAQGEKHPRG TV*KTKRRGPKQGTGRGKAPEE ETSREPPCTGPI
18642	49010	A	18751	196	322	
18643	49011	C	18752	189	650	
18644	49012	A	18753	1	53	
18645	49013	A	18754	31	449	
18646	49014	A	18755	1	389	GMPTSTIASCSQDGRVFIWTC DASNTWSPKLLHKFNDV VWH VSWISITANILVSGGDNKVTEG QQNEQ*QDRWGLAPHPAPGL PLPGPTNQTTGKSPQLQDDYFP RRSYRCSHRLICLNVIGNAL
18647	49015	A	18756	1	1041	
18648	49016	B	18757	15	782	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18649	49017	A	18758	1	1425	EVKKINNAHTIGCNVSWAPA VVPGLIDHPSGQKPNYIKRFAS GGCDNLKILWKKEEDGQWKKE QKLEAHSWVRDVAWAPSIG/ LWPPSTIASCSQDGRVFIWTL** CPQAITVPLNCLHKFNDVVLG MLNWGPSQPTSLAVSGGDNKN GTNTVCPTGWLQDSNTLVHLV TYKMPSRLGLGLWCQLLSPR KYREGTSPVSLWVGVEWFNP DWWGSIRVYHPSPSGSYRTHKP PLNNLSCDTSIIRELLGKKFLL FVSVYPVPSTVLGRKKVSVINT VDTSHEDMIHDAQMDYVGTSL ATCSSDRSVKIFDVRNGGQILIA DLRGWPRASRYQQGHQDLFIL RSDLPSQVFIRDKLMERRNRRT GRTEKARIWEVTDRTVRTWIGE AVAAAAADGVTFSPVPTPHTF RHSYAMHMLYAGIPLKVLQSL MGHKSSISTEVYTKVFALDVAA RHRVQFAMPESDAVAMLKQLS
18650	49018	B	18759	323	1583	
18651	49019	A	18760	3	419	PSASSSPARIPAAATRQGRSPRIP PAPSNEAPRLPADREFLEQQPPR FPKPTIQASGADRAVDCGILKL QKSPARLARPRWPRRPSKRFW SAAGSVEEQPKPRRRAKSPEQ SPQLSVLPLVTITPQASGAFK MKN
18652	49020	A	18761	2	385	WGRGGGRGLLYGRRHFVRRRR RGRSPGESALTVT*GAV/PSA AFRESAQPGPRSSSAHISTSPKR TDGGRDS*PGLPRSSLTPSLPRP ASFSTSPGRVSAFHRLPRHS/AG PGLSGSS*PQPYSDPT
18653	49021	A	18762	242	422	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met bod	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, =possible nucleotide insertion)
18654	49022	A	18763	2	992	AREKKQKTRRQNKNIPIRQINKT QRICCC*QSCLTMTQDFFWPLCQ GHSRGAPCLLVPPGLSLTCAPA QPAARPGVSQLTCAIACTHIQW FPSSCPPSEKNGDTLTVKTPSA SSSPARIPAAATRQGRSPRIPPAP SNEASPAAGRPRVPGAA PPRFP KPTIQASGADRAVDCGILKLQK SIPARLARPRWPRRPSKRFWSA AGSVEEQPKPKAP/PAKSPEQS PQLSVLPLATITPQAYGASFKE MKNLKTTRGGRSRWHFFNVIP QAPSLK WGFQTS DASSAEVFH VDRSLASHKMGPRRPSPLW APPFCEAAAARRQEPGVCIMVE
18655	49023	A	18764	292	348	
18656	49024	A	18765	2	466	LITVVKLLDTMVDTLFQLKLV AGSYQRFTDCYKCFYQLQPAM TQRIYDKFIAQLQTSIREISDIK EEGNLEAVLNALDKIVEEGKVR KEPA/WQRDTLRRHVQKQEA NQQLADAVLAGRRQVEELQLQ VQAQQQAWQALHREQRELVA VLREPE
18657	49025	A	18766	2	511	FNMAEASSANLGSCEEKRHE GSSSESVPPGTTISRVLKLLDMV DTFLQKLVAAGS/YSTPSLGRK CWS/RLPSGGQSVKQAFSWAAC RLPQGRKEEISDIKEEGNLEAVL NALDKIVEEGKVRKEPAWRPS GIPEKDLHSMAPYFLQQRDTL RCHVQKQEAENQQLADA
18658	49026	A	18767	224	748	NRPVGRRAGYHRGGSYQRFT DCYKCFYQLQPA/MTQRIYD/K FIAQLQTSIREILFDNQKQEGE PRKLSWNALG*KFVGTKGKVR KEPAWRPSGIPEKDLHSMAP YFLQQRDTLRRHVQKQEAENQ QLADAVLAGRK/QVEELQLQV QAQQQAWQALHREQRELVA VLREPE
18659	49027	A	18768	1	421	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, /-possible nucleotide insertion)
18660	49028	A	18769	666	1445	AGITTIEAAKRTIQVLHLQAND AQERAVERSQREFREERRAREPG LRLK*SFNNRRIQLVEEELADRA QERLGHLPCKKL*RS*KKLAD SERRY*RLFENRALKRLKEKIG TSREIPTQKKLKHICRKEADRK YEEVARKLGDHLKEDLEPTEVE RAVELAESRC*EIDEQIRLIDQNL QCLSAEDKYSQKEDKWEEE MKILTNKLREAE TRA EFAERS VAKLKKTIDDLLEDKLKCTKEEH LCTQRMLDQTLIDLNEM
18661	49029	A	18770	2	158	SAAPGAVPPPEADSTSAGMSRR PCSCALRPPrCSCSASPSAVTAA GRPRPSDSCKEESSTLSVKMKC DFNCNHVHSGKLKLVKPDIGRL VSYNPAYLEGSCDKICKDYER LSCIGSPIVSPRIVQLETESKRLH NKENQHVQQTLLNSTNEIALET SRLYEDSGYSSFSLSQGLSEHEE GSLLEENFGDSLQSCLLQIQSPD QYPNKNLLPVLHFEKVVCSTLK KNAKRNPVKDREMILKEIARG NFRLLQNIIGRKMGLCEVDILSEL FRRLRLHVLATILAQSLDMDLI NVSKVSTTWKKILEDDKGAFQ LYSKAIQVRVTNNNNKFSPHAST REYVMFRTPLASVQKSAQTS KKDAQTKLSNQGDKGSGTYSR HNEFSEVAKTLKKNESLKACIR CNSPAKYDCYLQRATCKREGC GFDYCTKCLCNHYHTKDCSDG KLLKASCKUGPLPGTKKSKKNL *RLHVGWHEPAPLQRPATPL LLQRQRPQRSDSRRAPSTLG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first endon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18662	49030	A	18771	4	1276	RKAASSYVSRMALPIIVKWGG QEYSVTTLSDDTVLDLKQFLK TLTGVLPERQKLLGLKVKGKP AENDVKLGALKLKPNTKIMMM GTREESLEDVLGPPPDNDVVN DFDIEDE/R*FEVENREENLLKIS RRVKEYKVEILNPPREGKLLV LDVDYTLFDHRSCAETGVELM RPLYHEFLTSAYEDYDIVIWSA TNMKWIEAKMKVKPLGVIWG KFSEFYSKNTIMFDDIGRNFL MNPQNGLKIRPFMAHLNRDK DKELLKLTQYLKEIALLDDFLD LNHKYWERPRVRCHIFHGKED RYDPCPMGACCKTVCTTNLA LPALPLGSMKNGQPCRNVIQK GYALTVINSGPQQGLFVRILLG LFIRDFFPAGCGARPFWNEGLM AYFQRRTLVGVMLVLSSSKSFK
18663	49031	C	18772	113	257	
18664	49032	A	18773	143	330	HHGPVPFPRGLIS*HSLHCPCT PGGKNVFFFCYEYFLKLAGIETT NCSADKRGGKVKCLIPR
18665	49033	A	18774	3	432	
18666	49034	C	18775	112	192	
18667	49035	A	18776	3	1015	SSRPVRPRPAARLSAMSSTQFN KGPSYGLSAQVKNRLLSKYD PQKEAELRTWIEGLTGLSIGPD FQKG/LKDG/TIL/CTLMNKLQP GASVVPKINRSMQN/WHQLENLS NFIKAMVSYGMNPVDLFEAN DLFESGNMT/QVQVSLALGG KRPKTKGAEEGLDIGVYSE KQERNFDDATMKAGQCVIGL QMGTNKCAQSQSGMTAYGTRR HLYDPKNHILPPMDHSTISLQM GTNKCASQVG/MTA/PGTRRHI YEYQAGNPTSCDNFSM/SLQ/M GYTQGAQTQSGQVF/GPGRPDI *TPSTCPQGTIADGAPSGTGDC PDPGEVPEYPPYYQEEAGY
18668	49036	A	18777	2	110	
18669	49037	A	18778	74	289	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18670	49038	A	18779	138	2039	GAAMAAAGRLPSSWALFSPLL AGVALLGVGPVPARALHNVT ELFGAEA WGTAAFGDLNSDK QTDLFV/LAGKK*LNRLFGRPE CTRILNPK*RYLSRITVH**QV*S LGAYDGDGQMDVLLTYLPKNY AKMN*ELSSGDKIKH*ILTI*P YSIGL/LQDEPLIMDFNGDLIPDI FGITNESNQPIQLGGD/CYHGI QH*PLQVKCEFH/PHAFIDLTE DFTADLFGATLNGTTSTFQFEI WENLDGNFSVSTILEKPNMM VVGQSAFADFDDGHMGSFTC QGCGR*K/CAKRVPSYLVRSGM KQWVPLQDFSNKGTLWGFVP FVDEQQPTEIPITLHIGDYNM DGYPDALVILKNTSGSNQQAFL LENVPCNNASCEEAARRMFKVY WGADRPKSN/SKGAMVATFFDI YEDGILDIVVLSKGYTKNDFAI HTLKNNFEADAYFVKVIVLSGL SISNDCKRKITPFGVNPQGLTYH VYNCRCKWVSEK WIR/WPNSAQ SAHLALQLPYNVLGFRVGSANF LDHL/SLGIPRPSWRKIFYGKQE WTAIIPNSQLIVIPYPHNVPKL GVPCNCLYTKLILFWLTAIALIR CLCFQSLAINWHFTLGREKKAG WIEEKRTRKAHRFPFWMAMW
18671	49039	A	18780	1	966	
18672	49040	A	18781	1	1035	RPFVPVPGVQKCLPTRGGHLHG RWLRDRAGPPEAQDGTGGRSR SRRRPPALPNSRPSVASGREM VVLSVPAEVT/VILLDMEGTTTP IAFVKG/DILFPYIERKMLK/EYL QTHWEEEEFQ/QDVSLFEGNK A/EEDAHL/DGA/VPIPGKHLGIG VDDLQQM/IQAVVDNVCWQM SLDRKTTAL/KQLQGHMWRRAA FTAGRMK/AEFFADVVPA/VR/K WREAG/MKVYIYSSGSVEAQKL LFGHSTEGDILELVDGHFDTKI GHKRRRVKVKTRKVIADSGCST NKHVFVWTDVTSRRASAGLRE AGCCTLAVVVRPGNAGINR*L RKTTYSLITSFQWNYLPSST

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18673	49041	A	18782	1	528	DNELLDYEDDEVETAAGSGMS/EAAPAKKDVKGSYFSIHSSGFRD/LLKPELLRAIVDCGFEPH/PSEV/QHECIPQAILGMDFLCQAKSGM/GKTAVFV/LATLQQLPEPVTGQV/SVLVMCHTRELAFQTR*KTRPF/WNVTVCPSGEDTRVGKETLL/PPPLTAPT/WLPSFASPLLNPH
18674	49042	A	18783	207	309	PPHSALLPFFTPFLPSPQLEIFVD/DETKLTLHGLQQYYVKLKDNE/KNRKLFDLLDVLEFNQVS*TSS/RGMSIGALQL*QKPGY*VHFY
18675	49043	A	18784	85	348	
18676	49044	A	18785	1	930	CCCRHTRSPCLVMAENDVDNE/LLDYEDDEVETAAGDGAEAP/AKKDVKGSYFSIHSSGFRD/LLKPELLRAIVDCGFEPH/PSEV/QHECIPQAILGMDVLCQAKSGGER/QAVFV/LATLQHLPEPVTGQGV/CAG*CCHTRELAFQISKEYERFS/KYMPNVK/VAVFFGGLSIKKDE/EVLKKNCPAYPSVGTGRIL/AL/ARNKSLNLKHIKFILDECCKM/LAEQLDM/RRDVQE/IFRMTPH/EKQVM/MFSA/LSKEIRPVC/RK/FMQDVNTLLPSLPPLPARCLLP/LALFLRLPCHSSAKKAACAQLG
18677	49045	A	18786	96	1618	LFTPCFHLFCENPSRSPFSPAG/PVMAENDVDNE/LLDYER*MR/WETAAGDGAEAPAKKDVKG/SYVS/LSHSSGFRD/LLKPELLR/A/VD/CGFEPH/PSEV/QHECIPQAILGMDVLCQCKSGM/GKTAVF/VLATLQQLPEPVTGQVS/VLVMCHTRELAFQISKE/YERFSKYMPN/VKVA/VFFGGLSIKKDE/EVLK/R/RNCPH/VVG/TPGRILS/LWVRN/KSLNLKHIKFILDECCKMLEQ/LDMRRDVQE/IFRMTPH/KEQV/MMFQC/YLGAKEIRPVC/RK/FM/QDPME/IFR/VDD/ETKLT/LHGLQ/Q/YYV/VK/LKDNEKN/RK/LFDLL/DVLEFNQV/VIFV/KSVQ/R/CIAL/APAY*WEQNFPAL/ANHRGDAP/RKERLS/R*SSSFKDFPTNEILIG/YPTLFGRRHGTSEAGETIAF*FM/NMP*GILKTLPCR/VGPEQGRF/GHPRGLA/ITFVSDEE*LPRSCD/DVQGSALRVKFS/ELPDEIGHLP/PTLEQD/TPGRLA/HFNGVDR/LFL
18678	49046	A	18787	1	363	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18679	49047	A	18788	78	714	GTTEGRQAEAVGYLCVLP LTL PLVTRLPPQVADTMLPPMALPS VSWMLLSCLILLCQVQGEETQ KELPSRISCPKSGKAYGSPCYA LFLSPKSWMDADLACQKRPSE KLVSVLSGAEGSFASLLA\RSIS NSYSYIWIWGLHDPKKGSEPDG DG*EWSSTDVMNYFAWEKNPS TILNPGHCGSLSRSTGFLKWKD YNCDAKLPYVCKFKD
18680	49048	A	18789	52	186	QSEVHHGISYTTGQGENLSEPI WKSWQRSQDL*QENHPEIYSLT
18681	49049	A	18790	666	2732	KQLIKMICYFILLILLSSHIGKD KAIIDKNGILVQYVQE*KLVEPF *KAIWPCCMETLNVDTPFPQPV CLGIYPNE*KLSK/CFKP*APKV YFHGCL*Y*NHWEPTETIPVK GWIK*ILF
18682	49050	A	18791	112	340	
18683	49051	A	18792	3	323	LSSLASMSFTTCSAFTNYWSPG SVQVPSYGTQPVSHAASVYAG LGGSGSRISVSHSPMAGGLAG MGGIQNEKETMQLSRDLASY LDRVRGLETENWKLESKIQEH
18684	49052	A	18793	1	994	APSYRA/RLVRSVASVYAGPGS SGRISMSRSTSFQGLGSRSM AA/GMAGGLAGMGGIQNEKET MQSLNDRLASYLDRVRSLEMG NWKLESKIWEHLEKKGQVRD WGHYFKTIEEDLTQIFTSTVDN TCILQIDNAHAAADDFRVKYE TEPATCQSVENDIHGLHKVIDD TSVTQLQLETEIEALKEALLFLA KKNHEEES/WRHTVQALEIDLD WMKNLEASLENSLK/EGVEAC YTLQMEQLNGILLHLESELAQT WAEGQGQAQYQALPNIKVKL EAEIATYRRLLLEDGEDFNFGDA LDSSNSTQTQKTPCT/RTVDGK VVSETNDTKVL
18685	49053	A	18794	3	377	
18686	49054	B	18795	54	136	
18687	49055	A	18796	149	419	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18688	49056	A	18797	83	1402	A EKAGGKKGEAPSYRA/RLVRS VASVYAGPGSSGRISMSRSTSF QGGLGSRSMMAA/GMAGGLAG MGGIQNEKETMQSLNDRLAS LDRVRSLEMGNWKLESKIWEH LEKKGPQVRDWHYFKTIEED LTQIFTSTVDNTCILQIDNAHL AADDPRVKYETEPATCQSVEN DIHGLHKVIDDTSVTQLQLETEI EALKEALLFLKKNHGEEIKGL SRRQIASGSDPWRVDPAPKSSG PSPKIMGRHPGPKYDELARKR TREE/LAKYSSQ/QIEEST/TQLV TNTSLL/GGLELAETNLHRS*TY KSRSLDSTLDSIEKS*KAQAW KKQPLKGSWKAPLRPLPDWSK LQTGILACTFESRAGNKTRARG TSAPGPQEL*GPLLKHQKVKAG GLRSPITL/PARLLEDAEAL*SLV DPLDSKQLPCNTIQKTTTPPG*V
18689	49057	C	18798	140	283	
18690	49058	A	18799	2	783	VVQFARREKPSKSVQRHPCT EAVREVLHG/NQRKSPQRSWET VELQISLKNYDPQEGQSAFSGT RQALSP/PRPKFSCVCPGGTQQ H/CDEA/KARGISPPHGTFEGA* KNLNKE*KNWSKKAGPRKY*L RFFGPQKSLDQSKIPPNSPGPGF K*RAGKVFPPWFTHNENMGG PKLDEGEVPP/QVFQMKERCLC L/AVAV/GHV/KMTD/DELVYNI HLGCQLSWVSLKKEKNW/QNV/ RALYIKSTHGQSPKRLIFKAHFE
18691	49059	C	18800	239	555	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, v=possible nucleotide insertion)
18692	49060	A	18801	401	3014	TRASSTMSKSFQSSLSRDSQG HGRDLSAAGIGLLAAATQSLSM PASLGRMNQGTARLASLMNLG MSSLLNQGAHSALSSASTSSH NSQSIFNIGSRGPLPLSSQHRGD ADQASNMLASFGLSARDSDELS RYPSDTITPENLRPILLQLKRRR TEEGPTLSYGRDGRSATREPPY RVPRDDWEEKRHFRRDSFDDR GPSLNPVLDYDHGSRSQESGY DRMDYEDDLRDGERCRDDSF FGETHNYHKDFSEYERMGRG PGLQERSLFKKRGAPPSSNIE DFHGLLPKGYPHLCSICDLVPH SNKEWSQHINGASHSRRCQLLL EIYPEWNPNDTGHMTGDPFM LQQSTNPAPGILGPPPPSFHLGG PAVGPRNLGAGNGNLQGPRH MQKGRVETSRVVHIMGFSTE GKTLRYQLQLVEPFGVHFKFI *FLNKNLLRAFIEMATTEDCFK AAVIDYTTTPALVFGKPVV HLSQKYKRIKKPEGKPDQKFDQ KQELGRVHLSNLPHSGYSDSA VLKLAEPYGIKINILMRMKS QAFIEMETREDAMAMVDHCL KKALWFQGRVCVKDLSEKYK KLVLRIPNRGIDLLKKDKSRKR SYSPDGKESPSDKKSKTDGSQE AERSTEGKEQEEKSGEDGEKD TKDDQTEQEPNMLLESEDELLV DEEEAAALLUESQFSGETSDL
18693	49061	A	18802	3	1013	NCRAAWRAKLEGCLSLRRNAC QCFLIWTQTPDREQSYSLDQLP REVLNQEEKSISWDIYLHLEM GNGLSDQTSILSNLPSFQSFHIVI LGLDCAWKRQLSYTRLQFQLN L*NTVPYPKGFNTEKI*/RVTLG NSKTVITFHFWVDVGGQEKLRP LWKS YTRCTDGI V FVVDSDV ERMEEAKTELHKITRISANRGV PVLIVAN KQDLRNSLSLSEIEK LLAMGELSSSTPWHLQPTCAIIG DGLKEGLEKLHDMIIKRRKML RPTRKRKDEYQFPNIICVGVGF LWSDFDKNRRVSTAGVCLSAAPP WMLLKL CFVEQFRCPTRVALW KMSKCSAS
18694	49062	A	18803	3	1103	
18695	49063	B	18804	34	734	
18696	49064	A	18805	1	1741	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
18697	49065	A	18806	6460	6635	RTSTERSHLKTRYQRTSCSSNR* LNSSSSKTSFRCSLTSLFWRHT IFNMLLINRLL
18698	49066	A	18807	5567	5853	IGILEA*LLRNLPNDSIKALVDA *YKSLLSAVERCSFMVLFGPEM NKPPLAILRIQSGVNRPPVISIM ALIGPLVTPSASTYSGVTNADLS SATK
18699	49067	A	18808	664	992	SCADIHGYHRGNSSNDSNLIP KQTNRDCLNNGHQNHSCNG/D *PQPQR**QLTLQNLMQHQ*KQ QYPLPQHQQE*RTR
18700	49068	A	18809	3	1698	
18701	49069	B	18810	227	883	
18702	49070	A	18811	180	373	PDTLRSILPMLLEQLFCRTFGLL SP**RDTSLHLGHKTEQHT*LV MGSWFYLLASQQPRCCYAC
18703	49071	A	18812	495	701	
18704	49072	A	18813	138	418	AYRLLLCLVYSEGFMHLEFQ NRLYHQLVF*GRLWHFWKSIK RFSIY*FFWYRW*YICKLNKGR LQDVIGVINT*CHFLS*GLH*TI PIHRL
18705	49073	C	18814	62	175	
18706	49074	A	18815	644	828	
18707	49075	A	18816	1	1107	
18708	49076	B	18817	84	342	
18709	49077	A	18818	3	1399	
18710	49078	B	18819	1	1377	
18711	49079	A	18820	1	546	
18712	49080	A	18821	855	1099	VTLYSEYQHPSVREYGLYLTSH RIEPLCEVHRTL*PVLLSMQPSV LEYEQQGVEAEY*LQEECHH QRTSSL*DLKQLLQ
18713	49081	A	18822	1	1680	
18714	49082	A	18823	1	3951	
18715	49083	A	18824	2	6446	
18716	49084	A	18825	2497	21785	SSPPYFTKQSSNNFVFDGNELF NSRDRLSQRFLYILQSSVHLINR Q/LEGYVQHHLNLAEI*HHGLG KDAYIAAMYNDDGATFQMEI GGIHTNAALAAGDKLQCIWRY LDVNGNAPAAENEFVVSVEG FGTSNFSVKCKGMLPGKFIGCD AFYKGYLQTDGPIKQVDSVKW FTNLTVSGSGRKLQGRKYPQ VVMGMGMSTGFDGYNLTPE RQVKMAYGLGYRDWWTYIG MSHYWKLTAQDKETGELI
18717	49085	A	18826	31	479	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18718	49086	A	18827	255	1002	SQFSLSQLVLVDSEEGSLAAAA ELAAQKREQLRKRFRLEHLMR NEARKLHHQEVVEEDKRLKLP ANWEAKKARLEWELKEEEKK KECAARGEDYEKVKLLFISAED AERWERKKRKNPDLGFSDY AAAQLRQYHPV*PKQIKPDME TYERLREKHGEEFFPNSNLLH GTHVAFHRGKFDREVLRSGKN QFEKRD/KF*ARRRPYNDDADI DYINERNAQFNKKAERFY\GK YTAIEKQNLERGTA V
18719	49087	C	18828	91	225	
18720	49088	A	18829	3	212	
18721	49089	A	18830	88	239	
18722	49090	A	18831	865	1898	QQQQQQHRRYPRRRSPRAWC SHPRSPLLFLPSLAPWPDQLTEE QIAEFKEAFLFDKDG\DTITTT KELAGTVM\RLSLGQEPNKKLE\A QDMINESGMLMG\NGTHLTFFPR IF*LMMARKMKDSTDSEGN/LR EAFRV\FAKDONGYISAAELR\H VMTNLGEKTTFR/KKVDEMIRE A\DIDGDGVNYEEFVQMMTG KMEDLTFLQPFSPPLEESNWNL LLTFLQKKKKKKVHLFHSCFL YSKTECQKYL\LVH\THQNLHVL VGGPCPLKDKQATHQFYNTCT NLNDNGLLKR\SILLMINTL\GL ASFFHACSFDDWSTSQGLWYL KLENGKNQISKPIPNGLV\HVFV
18723	49091	A	18832	1	330	WVVLKNCVGVGLLIAT*MWFI SNKYL\VQRQSRDYDVEWGYAF DVHLN\AFYPLL\VLHFIQLFFIN PLPFLKNTVILLYPFAPLILLYGL SLALGWNF\THTLCSFYKYRVK
18724	49092	A	18833	1	534	VPSNSVNSLVQNGVNLNSRDA ARH\TAGAKRYKYLRRLFRFRQ MDFEF\AAWQMLYLFTSPQRVY RNFHYRKQTKDQWARD\DPAL VLLSIWLCVSTIGF\GVLDMGF FETIKLLWV\LVDCVGVGLLIA TLM\WHCHF\WKKQVILLYPFAP LILLYGLSLALGWNF\THTLCSF YKYRVK
18725	49093	C	18834	295	570	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, * = Stop codon, / = possible nucleotide deletion, \ = possible nucleotide insertion)
18726	49094	A	18835	418	1567	SFTLNKNCVLQRVSSILPNTAEV DFPSWTTQSDWQQTRAQVLLQ ARARAALRLVLIIRLHDGASPP MRTRLSPATLATGSGASEAPV SGDRKPAATTSGGPRRKMLPST SVNSLVQGNVLSNRDAARHT AGAKRYKYLRLFRFRQMDFE FAAWQMLYLLTSP*RVYRNF HYRKQTKDQWARDDPAFLGF PFKYSGFCVSTIGGFVFLDMG\ FFETIKLLLWVGLID\CVGVGLL IATLMMWFISNKYLVRQSRD YDVEWGYAFDVHLNAFYPLL VILHFHQLFFINHVNLTDTFICY LVGNTLAWLVAVGYILR*LSL GYSVGLLFFSSIAHF*KNTVILL YPPA/PL*FLPTGFPLALGWNF THTLCSFYKYRVK
18727	49095	A	18836	1	888	MPGLLLLRGSQNLKQQAELCG LGLALVISAVKPLSKKFMLPNP TSMKPESDGIYSINLKRTEWKL LLAGHAIVVIENSADSVISSRN TGQKAMLKFAAATGATPIAGH FTPGTF/TNQIQAA YWEPRLLV VSDPRADHQSLEASCVNPPAI ALCNTDSPLCH/VDIAITCNNG APSVQGMW*MLAWEVLHMRG TISCN/SPWEVMSNLYFYRDPPEE TEKEEQAAAEKAVTKKEFQ GK WTVSAPEFTVTQPEVADWSEG MQICNLGKAQQGQLSSDAEDD FWSLESLDGYSHITVTR
18728	49096	A	18837	74	848	REIFINVRSLMACFVKEEDVL KFLAARNP/HVGGTNLDFQME QYIYIRKSDGIYIIRLKRTEWKL LLAARAIVAIENPADSVISSRN TGQRAVLKFAAATGATPIAGRF TPGTF/TNQIQAAFRE/PRLLVVT DPRADHQLTEASVNLPTIAL CNTDSPLRYVDIAIPCNNKGAH SVGLMWWMLAREVLRMRGTI SREHPWEVMPDLYFYRDPPEIE KEEQAAAEKAVTKKEFQGEWT APAPEFTAQPEVADWSEG
18729	49097	A	18838	72	528	DEACGVCCYSPGASPMPP*GRT RKEGRTAGKVRPKERPCTPVN\ KSGGQGPKRKNWSKRQKFRDK LNNLVLFDKAITYDKLCKEVP NYYKLITPSLWSPERLKIRGSLA KGKPFQEA*VKGLI/RNLVSKH RAPSNFTPGNYQGWEDAPSL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18730	49098	B	18839	6	125	
18731	49099	B	18840	249	291	
18732	49100	A	18841	128	669	RPGHAQTI.GSPSLALGMAGQF RSYVWDPLLILSQVLMQTVYY GSLGLWLA/VVDGLLRISPSLD QMFD AEILGFS/TPFQGRLSMM SFILNALTALGFAVISSEGEKQ CLDFTVTVHFHLLGLLGSNSS PFSPSGG*TLVGLGPKPVVALH SLAVIGEYLCMRTELKEIPLNSA
18733	49101	A	18842	1	818	MAELTVMRFHTEPQGSEGLRLP RISGSKPKQMHVWTWLEPLNGI CNGNTGNAQLLPPGVIFHKYP SHYVTAMLKSLKWPLQTELTS SSGQALWGLVGGGSPHRQAST EKLFEKVPKTAENFPCSELSCF HGENGFL*GVPCFHLRFPVRY AVRGGDFHTAINGTGGKSHPM GKKFEG*ETSSLKHTGPGDLVP WQNA GPNTNGSPVFLTSCTAQ ELSGLDGKPCGVLA KVKEIGM NIVEAMERFGSRNGKTSKKITI A/DCGTTPNKV
18734	49102	A	18843	4	454	
18735	49103	A	18844	1	978	MRWACDFTKLLSSTWTLIQYPE NAMIARWALLADCEPKTKAL RTTEDGIVDAANFEQFLQERIK VNGKVGNLGGGVVTEIKSKSKI TVTSKG/PFNSM*/*GSASFVEK KRLLEF*KLLSSTWTLIQYPENA MIARWALLADCEPKTKALRTT EDGIVDAANFEQFLQERIKVNG KVGNLGGGVVTEIKSKSKITVT SKGHQFYVNLRSFLICGKEKA VGILEEIVLNLIIFSSIDILTVKG TCSGCGERGFLEIYDEVEDSSYD NHLKDDDPKREGPGAQALST PPCCPLEKRINDQTLIISWSGST NVIEEAGRHSVVQEGWGALGV LRTTLPSLPQTGGAGFVGSHLT DKLMMDGHEVTVDNFFTGR KRNV EHWIGHENFELINHDVVE PLYIEGRAENQLSHTVPGPVDL SDRIVNGYFLSL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, v=possible nucleotide insertion)
18736	49104	A	18845	167	1440	RDIWLSASAAAMVPPVRKLV/AE GGQKTKQVLRFTLGCTHPIEDG IIDAANFEQFLQERIKVNGKVG NLGGGVVTIEKSKSKITVTSKG PFNSM*J*GSASSFVEKKRLLF *KAENLSKKNWNKTRMPTFTTL TQVAPNPITGYTSKGKISTLKR YLAFLCRLCCHGAREKACGEGG QKTKQVLRFTLGCTHPIEDGIID AANFEQFLQERIKVNGKVG NLGGGVVTIEKSKSKITVTSKG HFQFYVNLRIISFLICGKEKAVGILE EIVLNLIIIFSSIDILTVKGTCS SERGFFLEICDEVEDSSYDNHLK DEDPKREECRKRDAYAPLKDQ GNAEKRRHNVRKSWPLLSAKL LKIRTNLTGTTEEAEHLHANHIQ VPIKCLSYKLTERRKNGTQKHLH YALILHVKCDRRETSKFTKFG THPLTALFVPRAWGPPSALPE SELAVFLVAYEGNTLLHLFLSG AEQRGNSSSLKERAGRARFQ HQRKLNEQTIPDNLTSSVDLQSS FSAVHPNSQPTVWVDMPAHPLS QYLVPARKTVLPWYGNSCPD VIFGSLSDSKLSEGEFALPLKF
18737	49105	C	18846	713	831	
18738	49106	A	18847	2	303	
18739	49107	A	18848	97	233	RTVTCYHRNSRACHPQQITSCP *HRALPCLPLWSPKCPSPWPWF G
18740	49108	A	18849	229	359	MKWVYCSVTGMGKGQHRMP/ SKG*GWVQRYNRDGI SPRVLELF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, * = Stop codon, / = possible nucleotide deletion, \ = possible nucleotide insertion)
18741	49109	A	18850	1	1185	MSTIDDPR LQGRMCLMLRGT PEQKALVIGGEACMWGEYVDN TNLVPR L WLCPPSTQDLANE G REMTILHRH I PDRGKGV MRS CS FRTPRPFTLACGPEKSLMDPQS QSNSEGASSSLVVKLADTD RER ALRRMQQMAGHLGAFHPAPLP LGACGAYTTAILQHQAALLAA AQGPGLGPVAAVAAQMQHVA AFSLVAAPLLPAAAANSPPGSG PGTLPGLPAPIGVNGFGPLTPQT NGQPAPTRSTITGSP L /SGWSQ SRPILRIMKYAEQRIPTLNEYCV VCDEQHVFNQGSMLKIQPD TII QVWREDIPVNYMKELEL VTKA GFRALLSAPWYLN RISYGPDW KDFYIVEPLS FEGTPEQKALVIG GEACMWGEYVDNTNLV PRLW AHRIQL
18742	49110	A	18851	231	416	
18743	49111	B	18852	184	594	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, v=possible nucleotide insertion)
18744	49112	A	18853	247	2296	PVYLSIFMSCVGENGGSHIENW HSILRNLVNASYTKLQDIKGQ FWNDDESEGDNESEEFLYGVQ GSCAADLYRHPQLDADIEAVK EIYSENSVSIREYGTIDVDIAL HINISFLADEEVSTAWKVLRT PIVLRRLRFFLSQYLDGPDPSIE VFQPSNKEGFGGLGLQKKILGM FTSQQWKHLASNDFLKTQKEKR HSWFKIASGVTIKKFRAGLQHSF SPIPKSPSPFPYS*QDSMAGKGK LGVPELRVGRMLNRSISCTMK NPKVEVFGYPPSPQAGLLCPQH VGLPPPARTSPLVSGHCKNIPTL EYGLVQIMKYAEQRIPTLNEY CVVCDEQHVFPNGSMLKPAVC TRELCVFSFYTLGVMSGAAEE VATGAEVVDLLVAMCRAALES PRKSIIFEPYPSVVDPTDKTLAF NPKKKNYERLQKALDSVMSA REMTQGSVLEIKKQMDKVWIP UVAHPLLQWIISSNRSHIVKLPL SRQLKFMHTSHQFLLSPPAK EARFRATKLYGSTFAFHGSHI ENWHSIL/RGNGLVQWHSYTK LQLHGAA YGKGIYLSPISSISFG YSGMGKGQHRMPSKDEL VQR YNRMNTIPQTRSIQS/RFLQSRN LNCIALC/EVITSKDLQKHGEH LGCCPVFRPMSCTRFLPL*YED G/QVGDAQHYIPHGQQRVHERE
18745	49113	C	18854	122	486	
18746	49114	A	18855	1	535	KNAAGNFISPT/ERLSPNAWKTI TDIVLNGTAFVTFLSITTYAET GSGFVVPASAKAGVEAMSKS LAAEWGKYGMRFNVIQPGPIK TKGAFSRLDPTGTFEKEMIGRIP CGRLGTVEELANLAFLCSDY ASWINGAVIKFDGGEEVLSIGEF NDLRKVKTEQWDTIEELIRKTK
18747	49115	A	18856	3	356	
18748	49116	A	18857	1	1581	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,421,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, v=possible nucleotide insertion)
18749	49117	A	18858	2	1242	RRLLGPSRPPIRRPRQRFRQPRELCSFCAPACGPTACGGFRPEFWRI NMKLPAKVFFTLGSRLPCGLAP RRFFSYGKILYQNTALQSKFF SPLQKAMLPNNSFQGVAFITG GGTGLGKGMITLLSSLGAQC IASRKMDVLKATAEQISFSNW EIKVHAIQCDVRDPMVQNTV SELIKVAGHPNIVINNAAGNFIS PTERLSP*CWKNQ/ITNIV*NGT AFVTLEMGKHLIKAQKGAFA SITTIYA/ETGSGFCRYPASAAQ SRVWEAHGASLLQLEWG*NM GLRIPVDSNQGPIKTKGALYPS GPPTGTGEGKMGKQKFCGSP WGLVEELRKSLPAFLCSDYA S WINGAVIKFDGGEEVLISGDF NDLRKVTKEQWDITIELIRKT KRFLRPLWPSSWLQKRE
18750	49118	A	18859	8	432	NSKLPPVVTSSQMRFMY/DPQT DQHMKNFPEQLPLDEFQKTD KDPANYILHAVLVHSGDNHGG HYVVYLNPKGDGKWCCKFDD VVSRCCKEEAIEHNYGGHDD LSVRHCTNAYMLVYIRESKLS ELQAVTDHDIQQL
18751	49119	A	18860	1	211	
18752	49120	A	18861	1	242	
18753	49121	A	18862	3	733	LVHSRDNHGRHYVVYLNPKGD GKWCCKFDDVVS/QLVERL*EE KRINAKKVDRIRQEVHLYMQA QVASEDQFCGHQGNMDYDEE KVKYTVFKVLKNSSLAEFVQN LSQIMEFPQDQQLWPMQARSN GTRKPAMLDNEADGNKAMIEV SDNENSWITFLETVDLELAASG VTLPKFDKAHDVMMFLKMYDP KMRSNLNYCGHIYTPISCEIRDLL PVMCNRAFIQDTSLLIYEEVK LNLTERIQD
18754	49122	A	18863	261	659	KHLFYLFT*EITLYPDKHGCV DLLEECKKAVELGEKASGKLR LLEIVSYKIIGVHQEDELLECL PATSRTRFRIEELPLDLLEECKK AVELGEKASGKRLRLLEIVSYKI IGVHQEDELLECLSPATSRTR
18755	49123	A	18864	107	407	CVFFADTWSRSEATFQFTVERF SRLSESLSPPCFVRNLPWKIM VMPRFYDPDRPHQK/SGVFFLQR NAESDSTEDSLNDATTNPHIVA FHYWKPNLNSLV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18756	49124	A	18865	2	3698	YVVRVSLPPPPPAAGRPGAAVAD DAREEEEEAAPPPPPPPRLAA ARPPGSQLPPPAAGEAQAAD MNHQQQQQQKAGEQQLSEPE DMEMEAGDTPPRITQNPVIN GNVALSDGHNTAEEDMEDDTS WRSEATFQFTVERFSRLSESLS PPCFVRNLPWKIMVMPRFYDPR PHQKISVGFFLQ/CNAESDSTSW SCHAQAVLKIINYRDDEKSFSS RISHLFFHKENDWGFNSFMAW SEVTDPEKGFIDDD
18757	49125	A	18866	16	450	
18758	49126	A	18867	3	26	QSGHSDMDRVPQAQLGLLLLR LRGARCIDIQMTQSPSSLSASVG DRVITTCRASLDIRWLAWFQL KPGIEVKLLIYAATLQSGVPS RFSGSGSGTDFTLTISSLQSEDA MYYCQQYNNW/SSAPYTFPGIG TKVEIKTKLWAA/PSVLHLPGPS DEAVENLGTAFCLCALLEKTSN PQSRPKSTSGRVDNALPNGGK LPQGECSQKQD*TAWT
18759	49127	A	18868	3	694	
18760	49128	A	18869	47	1712	FPTKMAAVGRVGSFGSSPPGLS STYTGGLPNEIASGNGGAAAG DDEDGQNLWSCILSEVSTRSRIS KLPAG*NVLLLGEDGAGKTSLI RKIQGIEEYKKGGLYLYLN VHE*MTGNDQTRCN/VWILDG DLYHKGLLKFSLDVSLKDTL VMLVVDMSKPWTALDSLQKW ASVVREHVDKLKIPPEMKQM EQKLIREFQYVERGEDFPASP QRRNTASQEDKDDSVVPLGA DTLTHNLGIPVLVVTCKDAIS VLEKEHDYRDEHDFQSHIRK FCLRYGAALIYTSVKENKNIDL VYKYIVQKLYGFPYKIPAVVVE KDAVFIPAGW/DNDKKIGILHE NFQTFKRQEDNFWKDIITKPPV RKVFVHEKEIMAEDD/QVFLMKV QSLLSKSKPP/TTEAGRPVDAIS PKESQGGSPNTKIESVSS*CCQ ACHPIPCWGQKKIDPNMESWE LTSGRAFLGKFSFNSFV*VKRL GSPRRLPVVSGG*PCRVGLGGG SSGLLPASTKKVQAYKPVLDV HAELDRNTR*PVIVS/PTPTISIP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
18761	49129	A	18870	3	885	LVCLVRELLGPRFFLKVFLLPT FPGV/PAPVLTATLPFFHPEGR YQVE/YAFKA/I*PGGPLPSLAV RGK/DWA/VIVTQKKST*PNYL DSSVTVTSLFPR*LKNIW/CVMT GMTS*PADSQVQAR/YEA/AN WKIQSMGYEIPVD/MLCKKNCP IFLQVYHTEMLKMKASLR/C/M IFNWVIDEEQGPSRYIRC/DPA/G YYCGV*KPTASGS*TKLRSTGF LEKKCKKKKFD/WTF*TRQWET AINTLPLTVPIQLDFKTFQEIEV GVVTVENPKPRILT/EAEIDAQL VAPSKRRD
18762	49130	A	18871	1	471	
18763	49131	A	18872	1	1524	
18764	49132	A	18873	2	719	RPQRAGPVRRAGVMAALLDLAL EGMAVFGFVLFVLVLMHFM AIHYTRLHLNKKATDKQPYSKL PGVSLKPLKGVDPNINNLET FFELDYPKPLFFSVAPMKRIEKT QM**P*CSTY*YEVLLCVQDHD DPAIDVCKKLLGKYPNVDARLF IGGKKVGINPKINNLMPGYEVA KYDLIWICDSGIRGTMEMPMML EQSYDPNVDRDPIYRNNGDADG QHLVLHDFYQQGSGPKCSLINA
18765	49133	A	18874	200	370	
18766	49134	B	18875	323	448	
18767	49135	A	18876	2	421	FVGPDPGDPPESETHKLVVVG GGVGKSALTQIFQ/ILDTAGQE EFGAMREQYMRAGHGFLLVFA INDRQSFNEVGKLFQILRVKD RDDFFVVLVGNKADLESQRQV PRSEASAFGASHHVAYFEASAK LRLNVDEAFE
18768	49136	A	18877	2	236	
18769	49137	A	18878	1	763	MTPHSALRARGKGGGTGGGSE GSSSGGDMSSGAASGTGRGRPR GGGPGDPPESETHKLVVVG GGVGKSALTQIFQSYFVSDYD PTIEDSYTKICSVDGIPARLDILD PAG/QEEFGAMREQYMRAG/HT GFLLVFAINDRQEFSTRWGKLF HADFCGFKDRD/DFP/VVVLVGN KADILESQRQVPRSEASAFGAS/ HHVAYFEPSAKMRFNVDEGF* RSWCGVVREIPRNKELPPSPPK CPPGRMGGGCPCVLL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18770	49138	A	18879	2	403	RFLARRTNSTFNQVVLKRLFMS RTNRPPLSLSRMIRKMKLPGRE NKTA VVVGTITDDVRVQVEPK LKVCALRVTSRARSRLRAGGK ILTF/DEVYRHF GKAPGTPHSHT KPYVRSKGKKFERARGRRASR GYKN
18771	49139	A	18880	1	1006	PKLR*PEPSRNQVLLTRFQIAVH F/LLSRLLQFFRPARSRAFLSRK PKPGPGKKPMALIVEFIGELPTG VHARPPSHVETLCNTFSSQIEW HNLRTDRKGNAKSALALIGTDT LAGDNCQLLISGADDEQEAHQRL SQWLRDEFFHCDAPLAEVKSD ELEPLPVSLTNLNPQIIRARTVY SGRAGGIQTPISSLDLNALGNLP AAKGVDALQSALENGTLVLK NIEFRLLDS DGATS AILEAHRSL AGDTSLREHLLPVGQCANAASS TNHPFVTKKRQQCFVFRQLA NGRNDSGWQTHAFWFRFHQ SRIMKYLYGFTARLKEHQPKLR
18772	49140	A	18881	1	716	VCCEFCRAERRHHGEWTRH KDRKSGGARDPKPEGFL*RC CVKLYRFSGPEEPSNIQRLW LKRLFMSRTNRPSPVPSRDES GKMKASLARGKQDRPVVVG PLT*LMLRVSGRPKTERVVAL RRGSPGPQAALQGGGKIPS LFDQAWPLGLPLKGLLALVPGS SGSLGKGAREGGTRQFSKAP KETPQKPHQNPYVRISKGRKFE RARGPTGPARGYKKLTLGYSYL
18773	49141	A	18882	3	168	
18774	49142	A	18883	23	2669	
18775	49143	A	18884	279	396	
18776	49144	C	18885	960	1250	
18777	49145	A	18886	52	925	EVLEPRLGVFSNGCFQGLSSVM ALGLKCFRMVHPTRFNLYAASI RPVSEVTLKTVHERQHGHRRQY MAYSAVPVRHFATKKAKAKG KGQSQTRVNINAALVEDIINLEE VNEEMKS VIEALQG*FQ*GLSI* GPHQDPIDKIAVVT*REALL* T RFSQISMKSQPLNFG*IWASPE CTAAAIKAIRESGMNLPNPEVEG TLIRVPHSPK*PESTEKCWVKL GQTEHQGPKTLLREGFRQTQLN EQAGRNP KD/NSLQEDTIRLTEK QISQMADDTVAELRYHLAVKT KELLG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
18778	49146	A	18887	2	389	DSGSHCHAPPTTARRAFPIPGS KSNMATLKDQLIYNLLKEEHTP QNKITAVRVGADGMACAITIL M/KDYNVTANSKLVITGGARQ QQGESRLNLVQRNVNIFKFIIPN VAKYSPNCKLLIRSNPVDI
18779	49147	B	18888	217	423	
18780	49148	A	18889	27	1217	ARRPTRPPDLIATRRPRPARRCI SRFPFGSKSNYWPQLKDQLIYN LLKEEQTP/QNKITVVGAVG MACAISILMKDLADE/LALVDVI EDKLKG/EMMDLQHGKPFSTR NTKVLSSGKRL* ^M LANSKAGS FITGWGHRQQEGKKAVLILVQ AVNVNIFKFIIPNVVKYSPNCK LLIVSNPVDILTYVAWKISGFP KNRVIGISGCNLDASAFR/YLM G/ERLGSSEPH*ACHGWGPGWGEH GRFPVLPVMGVGLNVAGVSLE DFWHPDFRTDKD*E/QWKEIVH K/QVVE/SAVEVIKLG/GYTSLG LIGLSCKPD/LAESIMEESFRRV HPS/SSHHGLKGLYGNKRMNVS LSVPCILGQNGISDLVKG/TLTS EGRGPVGSKSADNNSWGSTKK
18781	49149	A	18890	1	264	
18782	49150	A	18891	3	736	
18783	49151	A	18892	81	1065	GKGPVAAFIDQSNIFLTDPKIFL GQWREEPKMPLLLGETEPLKL ERDCRSPVDPWAAASPDALALA CLCHCQDLSSGAFFNRGVLGG VLFPTVEMVIKVFVATSSGSIAI RKKQQEVVGFLEANKIDFKELD IAGDEDNRRWMRENV* ^R REK Q/NGIPLPSQ/NFEE/QYCC/DFD SFSAKKENIISF/LGWAPLPDS KGSEKAEEG/GETEAQKEGSED VGNLPEAQEKNEEEGETATEET NEEIAMEGAEGEAEETAEAE EEPGEDDFLGLFMLHFFHFSQ KMEAMKQHSNVLSTNQTELEY FGLKPAHPRVTEIDIMLPDLIR
18784	49152	A	18893	19	445	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18785	49153	A	18894	1	622	QAAWILKARALTEMVYIDEIDV DQEGIAEMMLDENAIAQVPRP GTSCLKPGTNQTGGPSQAVRP TSHSEKPTGFLRPSTQSGRPGT MEQAIRTPRTAYTARPITSSSGR FVRLGTASMLTSPDGPFIN*SRL NLTKYSQKPKMAKALPEYIFHH ENDVKTALELAALSTEHSQYK DWVWKVQIEKRYRRLGMYRE AEKQLISAMKQ
18786	49154	A	18895	1	1651	MKAIECKSRTVKDWHNHQKLG EGNKTDSPPPQSEGNTANTLIL DFWPLEMIACCWETFPQRLTAE LFMNPTRHWGKYKNQSVGAL RAPLGQGPSRRGLPGRVGRRLQ FTPRPPLSWSAGPSLAAPAAMS SEMEPLLLAWSYFRRRKFQLCA DLCTQMLEKSPYDQEPPELVP HQAAWILKARALTEMVYIDEID VDQEGIAEMMLDENAIA/PSSTP ITQAGRPTGFLRPSTQSGRPGT MEQAIRTPRTAYTARPITSSSGR FVRLGRLGMYREAEKQFKSAL KQQEMVDTFLYLAKVYVSLDQ PVTALNLFKQGLDKFPGEVTL CGIARIYEEMNMSSAAEYYKE VLKQDNTHVEAICIGSNHFYS DQPEIALRFYRLLQMGIYNGQ LFNNLGLCCFYAQYDMTLTS FERALSLAENEEEAADVWYNL GHVAVGIGDTNLAHQCLRLAV VNSNNHAEAYNNLAVLGDAEG /RHVEQARALLQTASSISTPYV* TAFILQQSILRFQDLQRSYVAA QKSEAAFPDHDVTQHILKQLRQ HFAML
18787	49155	A	18896	2	295	
18788	49156	A	18897	1	4470	MLGLGLLRRLRQGSNAVTRCRP LPVRRREGRRDGSPPWRSVVCRY CRCSRQTGASVTTVSLPSSSSP GLDPRGPRQASVKKPAEANPV LRPLVRHGTPYRDSEEGKREGL SRLRAVCRAGPRGRGSFSPRD ARASPLRHLVA AVTTGAASRR QRGARVRQSPSSSRRRAKRLRE CERRSLHAPPAMDASYDGTEV TVVMEEIEEAYCYTSPGPPKKK KKYKIHGEKTKKPRSAYLYY YDIYLVQQLPHLPQS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18789	49157	A	18898	89	810	QRRSGCVLRMTIEWETAA\ PAG GQRTDPDIKALWGSAGPDDVAR SMNISLQDYIAS*RRKLCPSYLP VHSCQGGYAAKNLSRKAQ(CPI) VERLNTNSPMMHRRPQQPARK LMTVRIVQA/HAFEIITPCSQAE NPL\QVLGEPPSINS GPREDST HLGAAGTVRRQAVDV\SP LRRV EPGPFVWVACCTRRLVKG LAFP TFKTIG*VAWAD\ELI\NACQGA PSNSYCL*EEGRVAFLEHVAKS NR
18790	49158	A	18899	1	365	DTHFK/DSHRTSTAHL\LSLQ GPSPPNLP LGVPIS\GMGLGPRG EGRANPIPTVLKRDQEGLYRS APQPRVTHFPWDTRAVAGRE RPPRVATLSWREERRREEKDRA WERDLRTYMNLEF
18791	49159	A	18900	203	427	
18792	49160	A	18901	95	482	ALQSPKLWGYFSGRKVFLNYFF SSQQVSEAVVATGSPRAWLTC LILPLPGIIFSVLPKAMSRLITF TPATDPSDLWKDQGGQQPQPEK PESTLDGLAAKLFYEALIGDES SAPDSQRSQT EPARERKR
18793	49161	A	18902	348	1660	GVTHLFLFCRKRRLRNGIAGRIK GPGWIFFSYCRSLRLWLTGSP LSLALPCLILPLPGIIFLKFSQKA VPGPLLITFTPATDPSDLWK\DG QQQPQPEKPESTLDGAAARAF YEAL\NGDESSAPDSQRSQT*T WPEERKRKRGLLKAPAAEAL AEGVASGRPVQGRSLEADDPMT YRLTSAQEGD\LP*LM\RLLEPH EAGGAGGNINARDAFWWTPL MCAARAGQGA AVSYLLGPGVA AWVGVCESGRDAAQ\LAEEA GFPEVARMVRESHGETRSPENR SPTPSLQYCENC DTHFQD\SNHR VTSTVHLLSLSQGPQPPLPLGV PISTPRF*ILLGGVGS PGMGLG PRGEGRANPHQPLILK*GPRKG LG\YKISTPSPEVTHFSPGIPRA VAGRERPPRVA\TLNWKE/ERR RREEKDRAWERDLRTYMNLEF
18794	49162	C	18903	135	299	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18795	49163	A	18904	3	2074	ERSRPVALRAAVPRMNPSTPSY PTASLYVGDLPDVTTEAMLYE KFSPAGPILSIRICRDLITSGSSN YAYVNFQHTKDAEHAIDTMNF DVIKGPVVRIMWSQRDPSLRKS GVGNIFVKNI.DKSINNKALEYDT VSAFGNTLSCKVVCDENGSKG YGFVHFETHAEAERAIEKMNG MLLNDRKVFVGRFSKRKERE ELGARAKEFTNVYKNGFGDM DADGRLK\DLFGKF\GPALKCEK LMTDESGSKGFGFVS\FERHE DAQKAVDEMNGKELNGKQIY VGRAQKKV\ERQTELKRKFEQ MKQDRITRYQGVNL\YVKND DGVDDERLRKEFSPFGTIQLVP KVMDDGLVAAGLGFVCFSSP EAEATKAVTEMNFRIVATEPLY VALAQRKEERQAHLTNQYYG RGMASVTEAVPNPV\IQPLPGQ APPRFTFMGRFSHRFRNRAVAY YPPSQIAQTKTKFLRWGTGGGA RTVHPFQNMPCGYCQALAPRP I*GTM\RPASSQ\VPR\VMPTQR\ VANTSNTDKV\PRSCSLQAAA AYVLARPAPFPQYKYAAGVRNS YQHL\NAQPQVTMQPCCSMV PRVQGTLWTCLPMVGHLPSPSR SKSQMLGWNGLFPSYKPMIHP YSLLVKSLG\MLLEIDNSEL\H MLVESPELFP*RVDEAVAGTTS PPQAKRGLAQKAG*QVPTGV P
18796	49164	A	18905	1	988	MAEDGEEAEFFAALYISGQW PRLRADTDLQRLGSSAMAPSRK FFVGGNWKMNGR\KRRLGELI GTLNAAKV\PADTEVVCAPPTA YIDFARQKLDPKIAVAAQNCY K\TNAGFTGEISPG\MIKDCGQ PWVV\LGHSERRHVF\GESDEL\I GQKVA\HALAEGLGVIRLHLG RS*DERGSLGITTEKVVFE\QTKV IRR*T*KDWKQ\VVVLGLMSPV WGLWLLARLATPQQA\QEVHR RSSRGWLKSNVS\DAVASEPPV TIYGGSV\TGATLQRLAKPSP DVGDLPLWGGASLQARNSWDI IQCHNNEPPSHLPLRLCQAQG LKQTQKPK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, /-possible nucleotide insertion)
18797	49165	A	18906	46	468	TGPTHASAILVPRSLHKMPGE ATETVPATEQELPQPQAEATGSG TESDS/GKSPASDTYIVFGEAKIE DLSQQAQLAAAEKFKVQGEAV SNIQENTQTPTVQEESEEEVDE TGVEVKDIELVMSQANVSRAK AVRALKNNS
18798	49166	A	18907	1	360	
18799	49167	A	18908	52	513	QLGPHGHRQPGGPAVPHPRG LVPLPALLPSGPRRGRTQAPR HSGPAL*GHPASDTYIVFGEAKI EDLSQQAQLAAAEKFKVQGEA VSNIQDINTQTPTVQEESEEEV DETGVEVKDIELVMSQANVSRAK AKAVRALKNNSNDIVNAIMEL
18800	49168	A	18909	1	422	RSLCQTGLRQVVTG/VTKVTIGN LENLFVI/TKPDVYKSPASDTYI VFGEAKIEDLSQQAQLAAAEKF KVQGEAVSNIQENTQTPTVQEE SEEEVDETGVEVKDIELVMSQ ANVSRAKAVRALKNNSNDIVN AIMVSVQAFVP
18801	49169	B	18910	427	529	
18802	49170	A	18911	122	252	
18803	49171	A	18912	44	189	SKLDYKSSKRHRKPVSNFITSF QIWD*FLFFF*LKCQLQPRVFSQ PN
18804	49172	A	18913	2	609	PFLPEALHGNKQCNCNSTSGI CRVSVKVCPPWVHAKLCAPT LMSRDVTLDPAPVKKPCGEGG AKKKKQVLKFTLDCTHPVED GUMDAAQ*ASFKERIKVING KAGNLVGGGVDPSPKGARGKIT VTSEVPFSKRVF*KYL/TPKKY LKNNLR*PGLPRSLPNQPKKEK LPNFRYFQINQGRKEGGRGF KFPLSGKILL
18805	49173	A	18914	107	524	AGTHLPPFLPVAVRQPMALRY PIAVGLKQGPTKVTQEP*ASPR HHVRRGRLTKHTKFVRDMIRE VCGFSPYVRRAMELLKVSKD KIRALKFIKKRVGTHIRAKRRR EELEQQYWPAIEEKLACQERLE PLPLPSPLK
18806	49174	A	18915	39	465	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18807	49175	A	18916	439	1586	TWGP PARRLPSGSHVPSA/ASSR LPSPHREEPQLQPAPVTITATM SSEAE TQPPAAP/GAPALSA DTKPGTTGSGAGSGPGGLTSA APAGGDKKVIATKVLGTIVKW FNVNRNGYGFNRNDTKEDV FV HQTAIKNNPQKYLRSVGDGE TVEF DV VEGEKGA E/AANVTG PGGV P VQGSKYAADRNHYRR YPRRRGPPRHYPQ/NYQNS/ESG EKNRGIGRVLPEGQAQQRRPY RRRRFPYYMRRPYGRRPQY NPPVQGEVMEGADNQGA/GEQ GRPV RQNMRYRGYRPRFRRGP PRQKTA*ERAAMEEDK/ENQGV WDPRFGSPQRRYRRNF/NYR RRRPQKTPK/QDGQKRPKAAG SHPA*EFVPLPEAE/QGGAE
18808	49176	A	18917	1	651	MTAFNSGKVDIVAINDPFIDLN YMVYMFLYDSTHGKFHGTVK AENGTLVINGNPIT/IFQQDPS KIKWAP/LAKVIHDNFGIIEGFM TTVHTITATQTINGPSG/INCHVM AAGLSRTSSLSLA/LAKPVGK VIPELNGKLTGMAFHVPTANVS VADLTCRLEKPA/KYDDIK/NT HSSTFDAGAAIVLKDHSVKLIS WYDNEFGYSNRV VHLMAHNA
18809	49177	A	18918	2	5264	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18810	49178	A	18919	3	1466	PRSAPRAASWLEDPREVRVSLR SAPPVRSAAIFFCVASRATSLR TPMGKVKVGVNGFGRIGILVT RAAFNNGKVDIVAINDPFIDLN YMVYMFQYDSTHGKFHCTVVK AENGKLVINGNPITIFQERDPSK IKWGDAGAAYVVESTGVFNQ PWRKAGAHLQGGAKRVMSAP SG*MPPMFVMGVNHEEV*QTA FKIIISN\ASCTNQLA*QPLAKG*F HDNFG*SWEGLMTTVPWPSLG NPRKTV\DGPSRG\NCGPWMGR GGFSRNIFLCY\WALPRAVGKG HP*A*TGKLTG\MAFPVSPSTAN VVSGWTLTCRFRKNLPKY\DDI KEGW*KQAFGGAPSKGIPGLQL SHQV\SSDFNSDT\HSFHPFDA GA\GIA\LNDFVKLISWYDNE FGYSNRVVDLIGPHGLQGSKTP WTTEPQARSKKGERPSLLGSP CHTQTPTTLNLPSSQLPCRPLEE GRGLWEPHVMYPSN\KVS LCS TKKKKKKKKK
18811	49179	A	18920	3	364	STVINIHSETSVPDHV/VLVPVQ HPLLE/RCCLGFIAFAYS\KSRD RKMVG\DV\TGAQ/ALCLHRQVP EHLGPD\SGHPHDH\WIHPVTGIR LCDSLPY\YVTDNTGKTGLLVA AHS\QLPHSTVQCW
18812	49180	A	18921	41	696	PDRRWSSLGHHESHCPNHSSLL STVASPPNYEDAQGR*SR/EVA VLGAPHNP\APPTSTV\IHIRQSR PPWPDHV\VV\SRVQHP\Q*TPA CLGFI\AFAYS\KSRGQGRWLG DV\TGAQGLMPPPAKV\PETIWG PDFW\GILNDHF\V\HRHPQWLIFP GHGIDQGRHHWRPGALPI/VTC IPRL\LP\TISIPRPAPRSKSCISPYI LTRFSTMAFNKSARVSGKKKK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18813	49181	A	18922	127	1016	SNLILRLNLCFPHLALASSAFDKC QEEETVEKTELLAERRGLTENH PGNPITAGHHEPHCANLLSCQQ RPRLPNYEMLKEEQEVAMLGA PQKPCLEPCPPVIHPQARPPWP DHVRLGPCFNNPLQ*TTCCPGL SLGISAYFRGSFRGTGKMV/GD VEPGQGLMPPTAQVAP*TSGA PDFLGSLEPHILAHQSSPPKCW VVPGAIDQEAASLRPA/LPVT CUPRTLSSIPSLPPEARELLPFD LYSTYSTFHSSPCPHSRVLHQPF ILTRFSTMAFNKVMFLVKKK KKKKKKV
18814	49182	A	18923	115	652	VSESTDVLSIGRLVTRA/AFNSG KVDIVAINDPFIDLNYMVYMF/ QYDSTHGKFHGTVAENGKLV INGNPITIFQ/ERDPSKIKWGDA GAEVYVVS/TLGVFTTMEKA GGSFRCGGAKRVIHLLPPLA*C PPCFVMGVNHEKDDN/TLKIIS N/ASCTTN/CLAPL/ASTGAAGKC QGQHPEA
18815	49183	A	18924	91	399	
18816	49184	A	18925	26	304	
18817	49185	A	18926	18	203	
18818	49186	A	18927	23	355	
18819	49187	A	18928	1	211	RLLRVRGPPSPRPPGTPAGRQA RHTAPVPARASPSTPPRKLKER APALASPERGSHSAEGRAPQ VPPK
18820	49188	A	18929	2	800	
18821	49189	A	18930	1098	1560	VSCPFTVIIFCYNFCRGGFSTTA VMARAKSMFLMLKKGAGPDF GIRFTASSGWFT*FEDRYALHN VNMNAESVGVADVKAAE/DFGS LIMEEYLP/QFFNMEEPSLFWK QMPERTFVICPKGFFPDHCNKE RPWHFCKRKS/LDTRVATPCG
18822	49190	A	18931	33	211	
18823	49191	A	18932	110	624	CHLSKMLRSPQELARLPGGQRQ LTRW*QRWPLWTIALVLVLWR VKSGP*S*RVSPSP/PVEPWVT LNMAGAPHGNAFPFGGPPHP VPQPGYGCQPLGPYPYPYPYPPA PGIPPVNPLAPGMVGPVIVDK KMQKMKMKAHKKMKHKQKH HKYHKHDKHSSSSSSSSSDSD

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18824	49192	A	18933	2	664	CEPLRISGRPTRPGERSKPRRLR ER*WGWRTHLNMWNPNAQQP GPNPYPPNIGCPGGSNPAHPPPI NPPFPFGCPPPPGA\PHGNPAFP TGGPPHPVPQMGYPG\CQPLGP YPPPYPPAPG\IPVNP LAPGM VGTKQLISRQEDCRRKLKAS* KRCHKA\HQKHHK\YHKHGKH FLFFPPSFQAVISGLEAYRALDP SLKSHQFCSPK\QMPCCCTGGM
18825	49193	A	18934	3	409	QTQVVIDAG\ALA VFPSLLTNPK TNIQKEATWTMSNITASR/QDQI QQVYNHGLVPFLVSDLS/KDFE TQKEAVWA/GGTVEQIVYL VH CGIIEPLMNLLPAKDKILVILD AISNIFQAAEKLGETEKL SIMIEE CGGV
18826	49194	A	18935	133	400	VLGPHGLGDHLGQFHSCQSRA EPPIAGEDIHAGLDEPDCLTKDF LRI*LQLSTQLHAGQEEEDQNV VPETTSEGYTFQVQDGA PGTFN
18827	49195	A	18936	218	863	
18828	49196	A	18937	106	1879	TQSALQPLIPASPSPWKAQARF GAFSLCLITMSTNENANTPACP VVHRFKNKGKDS TEMR\RRRIE VNVELRKAKKDDQMLKRERL *AHFLDDATSPLEN\RNNQG/T LLNWSVDDIVK\GINSN\VENQ LQATQAAR/KLLSREKOPPIDNII RAGLIPKFVSFLGR\TDCSP\IQF ESAWALTNIASGTSGQTKAVV DGGAIAPAFISGWASSHAHISEQ AVWALGNIAGDGSVFRDLVIK YGA VDP\LLALLASS**CQSLAC GYLR\NLTWL\SNLC\RNKNPA PP\DAVEQILPT\LVRL\HHDDP GSRVQDT\CWGYFFTL\DGSK WNGIGHGWV/VKQGVVPQLVK LLGASE\PIVTPA\LKSP*GNNW HLGTD EQTVVD\IDAGALA V\ FPSLLTNPKTNIQK\EATWTMSN ITAGRQDQIQQV/V*NHGLVPF PLSVFLSKADFKTQKEA\ VWAV TNYTSGGTS*TEL VYL\HCG\II EPLMNLFYCKRLPRIILLILDAN FKISFQPAENLVIDLEKPSINLE\ ECGGLRPKLKALPKPMK MESV YKASVKA*FEKYFPCRGKEGRI KTVVPE\TTSEGYTFSSRMGPP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18829	49197	A	18938	2	251	KVTNVKDGTTHTQTSLELFMYL NEVAGKHGVRIDIVENRFIGM KSR/GMNVQGDYEPDTATGFIN INSLRLKEYHRFQSKVTVK
18830	49198	A	18939	1	888	MSSKGSVMVLAYSGLNTSCILV WLKEQGYDVTAYLANTGQKE DFEEARKKALKLGAKKVFIEDV SREFVEEFWAAIQSSALYEDH YLLGTSLTRPCIAHKKVETVQR VGAKYEGPWRAPWRMPFYN WFKGRSDLMEYAKQHGPILVT PKNLWSIDKNLMHISYKAGILE NPKNQVPPGLYTKIQDPKAPN TPDLKIQFKKGVPVRVTSVKD GTTHTQTSLELFMYLNEVAGKH GVG/YIAIVENIFTRQRP/PECEF VRPCIAKSQEP/PEGKVQVPVLK GQVYILGWESPLSLYNEELMSV NVQGDYEPIDDTGFININSLRLK EYHCLQSLLEFAGCRLQTLFAW VSPAGAAEQRLLPVPSSGNFIP EGHLPDASWSSPV
18831	49199	A	18940	1	1155	
18832	49200	A	18941	1	993	MSSKGSVVLAYSGLDTSCLV WLKEQGYDVIAVLGQAVKGN QLLPVSLVKRKTTPGAQYANR LSRPVGRFINAAGTTGFPTGKR AGNDQVRFELSCYSLAPQIKEM GSLKVRNE/LQEVSTVMPAST QLPADTQCKLAE/LSAPVKK*T LGLSKT*QTQVMSQSSADSMR AWYRN*LFTNPTVRRLGNSPVT GSSLPRLPG/RGIYETPAGTILYH AHLDEAFTMDREVRKIKQGLG LKFAELVYTGAECKLLVASVPE PWRGRGGVEEGRDIKEVQEH GSDSAESSTHPPASRPGEGLA CIFCGKWRHLNTPLCERYPRH SRDHRPH
18833	49201	B	18942	324	1035	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, =possible nucleotide insertion)
18834	49202	A	18943	29	1516	KQIPDAGNSRLQSQTLSSKGS VVLA YISGGLDTSCLVWLKEQ GYDVIA YLANIGQKEDFEARK KALKLGAKKVFIEDVSRFEVVE FIWPAIQVQAHLYEDRYLPGH LSLPGPCIARKQVGNPSGRGA KYVVPTGATGKGNEQVRFEL SICYSLAPQIKVIAPWRMPEFY NR/FKGRNDLMEYGKATLGFP PVTPKNPWMDENLMHISYE AGILENPKNOAPPGLYTKTQGP SOKPPTLDILDSSFFKKGVPVE GGPTFKDGTTHQTFLAELFMY LNEVAGKHGRRAVFDI V ENRF IGN*SPRGILRRTPAGHHSFYH AHLDIRGLSPWDRGSGKIKQG PGAWKFAELVYTGFPQAPE CEFCPTGTIAKVPRKPSGKGK QVVRSEFKGPQVYI/LSGREIPHC LLLTMRVLVKHGTCGDYWRP IDGHRGSSKHQIPFKAEGNYHR LPRAKVTQIDPVYNEELGPPQ FSGSPQVTGANCDDNL
18835	49203	A	18944	1	560	GRARTPANMALRVVRSVRALL CSLRALWAPAVPCLPRPWQLG AGAIWTLTGPVLLWVCKFTE KHEWITTENGIGTVGINNFANE ALGDVVYCSLSEVGTKI*TKPS WSLVLLE/SVKAASEL/FSPLSG EVPDFNEALAE/NPGLVTKSRY EDGWLKMTLSNPFRT*MHL MSEEA YEKYK/SIEE
18836	49204	A	18945	3	108	
18837	49205	A	18946	1	845	MAIPGIPYERRLLIMADPRDKA LQDYRKLLLEHKEIDGRLELR EQLKELTKQYEKSENDLKALQS VGQIVGEVLKQLTEEFIVKAT NGPRYVVGCRQRQVIELPLTNPE LFQRVGIIPPGCLLYGPPGTGK TLARAVASQLDCNFKVVS IVDKYIGESARLIREMFNYARD HQPCIIHFMEIDAIDILPNEQA RLDILKIHAGPITKHGEIDYEA VKLSDFGNGADLRNVCTEAGM FAIRADHDFVQEDFMKAVRK VADSKKLESKLDYKPV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 9,540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, v=possible nucleotide insertion)
18838	49206	A	18947	3	1181	LLIMADPRDKALQDYRKLLLE HKEIDGRIKELREQLKELTKQY EKSENDLKALQSVGGQIVGEVL KQLTAEKFIVKATNGPRYVVG CRRQL*QKVSCLKPGVTRVALD MTLTLTMMEDILPRVEVDPLVYN MSHEDPGVDVSYSEIGGLSEQI RGI*GEVIGLPLYKPSYFQVRVG IIPPKIGCLLYGPPGTGKNT/LLA RAVASQLDCNFLKVVSISIVDK YIGESARLIREMFNYARDHQPCI IFMDEIDAIGGRFSEGTSSADR EIQRTLMELLNQMDGFDTLHR VKMIMATNRPDTLGPALLRPG RLDRKIHIDLPEQARLDILAKIH AGPITKHGEIDFESNC*SFRMG FNGADLRNVCT*SQACSPIRAD P*FC*YREDFWKA/VRKVA
18839	49207	A	18948	1	220	VNMRDRFGQIMENLRRRQCEL AGVETCKSLES/RIESLEFLDEM */LLEQLM/RHYCLCWATKGGN ELGLKEITY
18840	49208	A	18949	1	645	
18841	49209	A	18950	10	1226	AAPAEPRALPSSVAFSLWLAP SPAARRPRFVPGGAQLPGTVH ARWPARQRRESSITSCSTSSCD ADDEGVRGTCEDASLCKRFV SIGYVWHDPYIQL/VRLSKQR/ KAPEINRGYFARVHGCSVQLIK/ AFLR/KTECHSCNCSNLGGQGM GSPPFWRDKDEDLSSQVNIFEV DFPMIVTRKLHSIKWLAFLPSS PILELHSEDTLQMASDCIC/DGH ILDSKRYAVIGADLRDLSELEE KLKKCNMNTQLPTP*IAECLV VYMTPE/QSANLLKWA/INSFE RAMFYYYQQVNMGDLFGQIMI ENLRGRPV/CDLAGVET/CKSLE SQKERLLS/NGWENKHRPVRT* LEFVPPGLPSKLG*SRIESLE/LD ENWELLEQLIPHYCL/CWATQR RK*SLGLKEITY
18842	49210	A	18951	3	502	TEANTLN*RLQNME/ARLAE/ RKFM/NPFNMPNLYQKLESD/P RTRTLSDPTYRELIEQLRNKPS DLGTLKQDPRIMTTLVLLGVD LGSMDEEEIATPPPLPSSMS LSPAPSCCLGCSPIVGFFIWGS GHVMGRGGGSSSLRSQLSHV YSASPSPIQASWAWL
18843	49211	B	18952	1	1071	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18844	49212	B	18953	67	1026	
18845	49213	A	18954	2	1910	PVASSMFQKAARAVGNAERTD SIQRCSGPRCAMEQVNELKEKG IKALSVGNIDDALQ/CYSEAI*/R LDPHNHVLVSNRISAA YAKKG DYQKAYEDGCKTVDLKVPDW GKGYSRKA AALEFLYRFEEAK RTYEEGLKHEANNPQLKEGLQ NMEARLAKIRKFMNPFNMPNL YQKLESDPRTITLLSDPTYRELI EQLRNKPSDLGTLKLDPRIMTT LSDLLGVDLGSMDDEEEIATPA PPPPAKKETKPEPMEEDLPENK KQALKEKELGNDAYKKKDFDT ALKHYDKAKELDPTNMTYITN QAAVWFEKGDYNKCRELCEK AIEVGRESIREDYRQIAKAYARI GNSYFKEEKYKDSIHFYNKSL AEHRTPDVLKKCQAEKILKEQ ERLAYINPDALAEKNKGNECF QKGDYPQAMKHYTEANKRNP KDAKLYSIRAACYTKLLEFQL ALKDWEEWYQLEPTFIKGYTR KAAALEAMKDYTKAMDVYQ KALDLDFSCKEAADGYQRCIM AQYNRHDSPEDEVKRRAMADP EVQQFMSDPAIMRFILKQMOK DPAQALSE/HL*RNPLLPREIQKL MDVGSDCCKFGDDLFIAPFLCPS CGKRSWDRGEQAARSGRESST ERKGEQGERRPSSPYIYT
18846	49214	A	18955	2	293	
18847	49215	B	18956	53	182	
18848	49216	A	18957	2	403	
18849	49217	A	18958	3	1646	
18850	49218	A	18959	3	408	
18851	49219	A	18960	1	2458	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18852	49220	A	18961	88	1511	LWPLGMA SNSSSCPTPGGGHL NGYPVPPYAFFFPMLGGLSPP GALTTLQHQLPVSGYSTPSPATI ETQSSSSEIIVSPSPSPPLPRIYK PCFVCQDKSSGYHYGVSA CEGCKGFRRSIQKNM VYTCHRD KNCIINKVTRNRCQYCR LQKCFE VGMSKESVRNDRNKKKKEVPK PECSesyTLTPevGELIEKVRKA HQAETFPALCQLGKYTTNNSISE QRV\SLDIDLWDKFSELSTKCI KNGEGRQGRLPGFTTLTADQI TLLKVAACLDILILRICTRYTPE AGTP*PSWDGLTLNR\TQMHN AGFGPLTDLVFAFANQLPLAE MDDARETGLLSAICLICGDRQ DLEQPD RVDM LQEPLLEALKV YVRKRRPSRPHMFPKMLMKIT DLRSISAKGAERVITLKMEIPGS MPPLIQEMLENSEGLDTLSGQP GGGGRDGGGLAPPPG\SCSPSL SPSSNRSSPATHSP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /possible nucleotide deletion, v=possible nucleotide insertion)
18853	49221	A	18962	143	2159	LTHSSTWLGRSCNHDRRQMGSKVMSYVVVAGRGTC AQETPIYTIRYLEDKQYGGSLGVDSVLA RLFSGASVLFISGPPFSSYLSGVPPGHPMEDSDMDMDMSPLRPQ NYLFGCELKADKDYHFKVDN DENEHQLSLRVTNGLGLVAK G*VAHLLKAEATFEASPNLK VTTWATLKMISVPAQRVFPPLG GLLKITPTRWVLKGLKVWVQG PVHISGTAL**LWEGRCQSPED EEDVNRVLFMKPKGRGLKH MFGDLVCSWKLA AETQSSSE EIVPSPSPPLPRIYKPCFVCQD KSSGYHYGVSA CEGCKGFRRS IQKNMYYTCHRDKNCIINKVTR NRCQYCRQLQCFEVGMSKESV RNDRNKKKKEVPKPECSESYTL TPEVGELIEKVRKAHQETFPAL CQLGKYTTNNSSEQRVSLDIDL WDKFSELSTKCIKTVEFAKQLP GFTTLTIADQITLLKAACLDLIL RICTRYTPEQDTMTFSDGLTN RTQMHNAGFGPLTDLVFAFAN QLLPLEMDDAETGLLSAICLCG DRQDLEQPDPRVMDLQEPLEA LKVVYRKRPRSRPHMFPMKMLM KITDLRSISAKGAERVITLKMEI PGSMPLIQEMLENSEGLDTLS GQPGGGGRDGGGLA PPPGSCSP SLSPSSNRSSPATHSP
18854	49222	A	18963	748	1075	ILPTSLFFLCFVFVFC*DRVLL LSPGWSA VARSWLYCNLSLRG FKFGSCLSLSNWDYRCTPLRS ANFVFL/CRDRVSPCWPTSVSNS *PQVIHPWPVKVLGITRV
18855	49223	A	18964	3	674	GRRRLRDAEGPEETVRLWPA ARAAMDAAEVFLAEKELVTII PNFSLDKITLIGGDLGPFNPG/LP VEVPLW/ARLNLKQRQK/CR LPPPEWMDVEKLEKMRDHE/RK EETFTVPMKPFTTWELTKLL/L NHA/SDNIPKGRTEFRDPGRVF WGHYSY*AKFRVFGDSFVRRQ EAHAKLD*LGPMWGDQQA VTF LTQA/LNPHVTNSTRINPPSLE STSVLRTS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18856	49224	A	18965	261	876	VAQKIDMPEYQGEPDEISIQKC QEA VRQVQGPFVLVEDTCLSFN ALGGLPGYKIV/WFLEKLKPIE GLHQLLA/GFIEDKSAIYALCTF CTQAPGDPSPQPVRLVSGGRDL RGRIRWHPEGCQDFGWDAPCF QPDGVEQTYAEMP*GGRRNA VSHRFRAPCWEPA REYFWQV WPSLTASWKEGSPRPGDLGK GLAPKPSPHRGRAPP
18857	49225	A	18966	2	181	TAEKMAVLAPLIALVYSVPRLS RWLAQPYLLSALLSAAFLVLR KFPPLCHGLPTQREDGNPCDFD WREVEILMFLSAILMMKNRRSS TK*AHPTRRR
18858	49226	A	18967	5331	5454	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18859	49227	A	18968	5186	5308	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18860	49228	A	18969	4570	4691	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18861	49229	A	18970	5666	5788	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18862	49230	A	18971	5630	5752	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18863	49231	A	18972	224	456	
18864	49232	A	18973	5543	5665	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18865	49233	A	18974	4602	4725	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18866	49234	A	18975	3	313	
18867	49235	A	18976	5480	5602	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18868	49236	A	18977	269	394	
18869	49237	A	18978	5322	5445	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18870	49238	A	18979	164	434	
18871	49239	A	18980	5364	5487	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18872	49240	B	18981	18	1904	
18873	49241	A	18982	1296	1973	RILPGGQQNSSWNFS EDTVISIL NTINEVIAENLEAAKKLRETQGI EKLVLINKSGNRSEKEVRAAAL VLQTIWGYKELRKPLEKEGWK KSD FQVNLNNA SRSSSHSYDD STLPLI*PGPKNQIRNLIGKKFR* AIWDQTONH*IT/DYSTPNERGD HNRTLDRSGDLGDM EPLKGT PLMQDEGQESLEELDVLVLD DEGGQVSYPSPMVCPSTPKIVL EEGGS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18874	49242	A	18983	5844	5967	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLK YNT
18875	49243	A	18984	5781	5904	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLK YNT
18876	49244	B	18985	1	1477	
18877	49245	A	18986	152	1539	
18878	49246	A	18987	5571	5694	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLK YNT
18879	49247	A	18988	4551	4674	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLK YNT
18880	49248	A	18989	2	1043	GVRLRYSPIAVVMVGEAGRDL RRRRRAVAVTAEMAVLAPLI/S LSVYSVPRLSRWLAQPPYLLS A\LLSAFLLVRKLPLCHGLP TQ\REDGNPCDFDWR\VEILM FLSAIVMMKNRRSITVEQHIGN IFMFK/SKVANTILFFRLDIRMG LLYITLCIVFLMTCKPP/LSPYM GPEYIKYFNADKPFDEELERDNR VNW/ILLEFFGNWSNDWQSFAP IYADLSLKYNCTGLNFGKVDV GRYTDVSTRYKVSTSLP/TK/QLP TL\ILFQGGGGQCGRPQI*QGK GR/ALFSWDL*GT*KEGQENVI REFNLNELYQRAKKLSKAGDNI P\EEQPVASTPTTSDG\ENKDD
18881	49249	A	18990	1	1105	MESTGEDAVNIVEMVTEDLVY RLVVLKSLQVWVSPGDFMGSE GTECMLIGPWVAMGRPSESTLS SHSGPRSPHGTGSPAPRLQAVH VLKCPKSRGVQGGWGLASQCL PEHRHTQLSCDSTQAWPQLCSA QSLRHNRSGGAGAVTSEPAG AGGLPRPRTQGCLGAES/PAG QLHSQQRGGPEEGRLLSDVDHP DLSSSQQRGPEGP/QVAGGWCV SAAWSSTHLAGPQQRWDQEEA RQWEQIPLSLLMMGDPPGYSR APGDGPQPQPRQLQLCLGSSH PTNS*GAELPPVPGSAECAALT VLPSLHLQVWWQVGRPGPT*V DPRVGLPGQQAPEQRVYSLTHP EQLPVLQVPLLIYRYSSTYNGV
18882	49250	C	18991	105	393	
18883	49251	A	18992	38	230	LYWQKRKGKLLNNLTQGVIVAD PVR*KKFHFKCPSNCPKIHNTES AYA VSFMKYSAHVLGSLYEM
18884	49252	A	18993	487	747	
18885	49253	C	18994	179	649	
18886	49254	A	18995	3	3187	
18887	49255	A	18996	274	423	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
18888	49256	A	18997	1333	2243	RCWRPRTLGFASPTTRPCSPTH APGCEMTPRDWRHVLVSFASPLR IEEIFQGYDKTFGLKNKKGAKQ QKFIKAVTHQVKFGQ/SKSTSGS TE*SWKRKLKKDDKKKELQEL NELFKPVVAAQKI/RVKGADPK SVVCAFFKQGQCTKGDCKCKFS HDLTLGKMEKRSVYIDARDE ELEKETKSSLIQADTMDNWDE KKLEEVVNKKHGEAEKKKPKT QIVCKHFLAEIENNKYGWFWV CPGGGDICMYRHALLPPGFVLK KDKKKKEKEDEISLEDLIERERS ALGPNVTKITLESFLAWKKRRR
18889	49257	A	18998	1	322	
18890	49258	A	18999	1	822	MGKAKEEVFLADELVHAKTNR NKECDYSVTANSKIVVVTAGV RQQEGESRLNLVQRNVNVFKFI IPQIVKYSPDCIII VVSNPVDILT YVTWKLSGLPKHRVIGSGCNL DSARFRLMAEKLGIHPSSCHG WILGEHGDSDHPGRPRPHVPPI KPPETLPGRDTSSWTSRGAHWR RNTQAAGRREHIDRHQQAIDR WNNVGFGRGGQRRARLLSDLT PTGKPPSSYSVLLAPPSESYFH SIKPCIHSPS*CMQRPKEIKN/RD YSVTANSKIVVVTAGVRQQEG ESRLNLVQRNVNVFKFIIPQIVK YSPDCIII VVSNPVDILTYVTWK LSGLPKHRVIGSGCNLDSARFR YLMAEKLGIHPSSCHGWILGEH GDSDHPGRPRPHVPPIKPPETL PGRDTSWTSRGAHWRNTQA AGRREHIDRHQQAIDRWNNVG FGRGGQRRARLLSDLTPTGKPS SYSVLLAPPSESYFHSIKPCIH SPSPREIQFFGYTKARNPRVQK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18891	49259	A	19000	1	1337	MEKPKRLRWLWGPAPSSLLAE PAPEETHAADVFVSARLLQRSP EPSLSWGGRALAEQKAEAGSSC GSAERLVAFAAKTRPYLSLCK MATLKEKLIAPVAEEEEATVPNN KITVVGVGQVGMACAISILGKS RAMEHTTAGAPYTPRQQTCCQ NMMSLADELALVDVLEDKLKG EMMDLQHGSFLQTPKIVADK DYSVTANSKIVVVTAGVRQQE GESRLNLVQRNVNVFKFIIPQIV KYSPOCIIVVSNPRDALTGTGTW KLSGLPKHRVIGSGCNLDSARF RYLMAEKLGIHPSSCHGWILGE HGDSSVAVWSGVNVAGVSLQE LNPEMGTDNDSENWKEVHKM VVESAYEVIKLKGYTNAWIGLS VADLIESMLKNLSRIHPVSTMV KGMYGIEVEVFLSLPCILNARG LTSVINQKLKDDEVAQLKKSA DTLWDIQKDLKDL
18892	49260	C	19001	462	728	
18893	49261	A	19002	1	1033	MSGSLMFLPKADMPAPMLVQ PAERFDSWVWAGPEQLHSNQL PGDADALLGRNLTKGTRRLC TEEQVKIPQPEPGPPQKLCVLSA AGGQACLVLTFPRWTVWEEPP PPGLVGKACARWWGKGEPD RKAPAPPPPPPGTEKVDQTSE/E RGTLIQRPPAPALPGWVRKTGR P/PPPA/TGRLQQVPLLGASTQPE /PPGRGV/PPGVSPGLGEDVE/N DGMSLSYLAEPQATSQRAP*G ENTVALSGRLGRNSSSYTCRPA GERNFHPRGGPSSTAALHLRK MPGTPQCEGRRVAPRALPET*M LQPGGTTR*T/PPGPLAFSPSSP TGPQKVKSLGNSSARTILPPKW
18894	49262	A	19003	2	212	
18895	49263	A	19004	1	425	PTRPAAVAEDGGLKKCKISSYC RSQPPARLISGEEHFSSKKCLA WFYFYAGPDEVVGPGEKMEKFC EDIGVEPEN\CDCTEKLQNKDFD LRSQLNDISSFKNIYRYAFDFAR DKDQRLSDIDTAKSMALLGR TWPLFSVYF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18896	49264	A	19005	229	1028	GASKRTGTPFPFPAHPAREGR KMPVKKKRKSPGVAAVAED GGLKKCKISSYCRSQPPARLISG EEHFSSKKCLAWFYEYAGPDE VVGPEGMEKFCEDIGVEPENII MLVLAWKLEAESMGFFTKEEW VKGWMTSLQCNLHRKGYPNF DFFAAHS*IDISSFKNIYR\AFDF ARDKDQR\SLDNDTAKS\MLAL LLGEGHGPLFS\VFYQVPGGQS KYRVMNKD\QWYN\VFSEFRTV\ HADLSNYDEDGAWPVL\DEF VEWQKVRQTS
18897	49265	A	19006	3	373	
18898	49266	A	19007	3	418	GRAGSRKWL\LTGSLASTSPSL LSGQGPWAPLQRAMKPPGGES SNL\FGFPEEATPSSRPNRMSSNI FGPTEEPQNLKRTNPPGV*GSG IFDESTPVQTRQHLNPPG\GKTS DIFGSPVTATSR\LAHPNPKPKDH VFLM
18899	49267	A	19008	1	684	
18900	49268	A	19009	3	81	
18901	49269	A	19010	1	465	
18902	49270	A	19011	120	344	
18903	49271	A	19012	3	1334	SPOLISSASRP\AVRNSRHDATRP VVFQIMSGGSADYNSREHGGPE GMDPDGVIESNWN\EIVDNF/D VTMNLKESLLARGIYAYGFKEP SPIQQA\IIPC\KGY*CGLLKLQ SGTGKTATF/SLISILQPVGRLSF KETQSTSYWAPTRELAQQIQK VILALGDYMGATCHACIG\GTN VRNEMQKLQAEAPHIVVGTGP RVFDM\LNRRY\SPKW\IKMFVL DEADEMLSRGFKD\QIYE\FOKL NTSIQVVFASATMPTDVLEVTK KFMRDP\IRILVKKEELTLEGIKQ FYINVEREEWKLDTLCDLYETL TITQAVIFLNTRRKVDWLTEKM HARDFTVSALHGDM\QOKERDV IMREFRSGSSRV\LITTDLLARGI DVQQVSLVINYDLPTNRENYIH RIGRGGRFGRKGVA\INFVTEED KRFLRDIETFY\NTTVEEMP\MN
18904	49272	A	19013	75	540	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /possible nucleotide deletion, \possible nucleotide insertion)
18905	49273	A	19014	774	1529	RWGERILLTWKRQLQVPPSAL EAGGSSGLEDVLP LLQQADELH RGDEQKGREGFQLLL/TQQAW CMEAGRITFLWRLARAYSDMCE LTEEVSEKKSYALDGKEEAEEA LEKGDFEE/SLTCHI.WYAGALW SAG*AMRASRRRIQELALTFKE HCGQKPFALQPKTPMAHFLLG RWCYQVSHLSWLEKKTATALL ESPLSATVEDALQSFLKCYREL GKNSEARWWMKLALCLPDVT KEDLAIQKDLELEVLIRD
18906	49274	A	19015	97	452	GTERRTGKLPALLTPNLVQLRR LLFPGIQTI*VPAQGRGHLLQRP AAA/RPRTSAPPAAAAAPPQV EARPP*LQPTRQEEAAELQTAR AGLWELWAGPQSPRDLNSLESI RITCSPTP
18907	49275	A	19016	1299	1800	FWGGRSGTVGYGADMGKFKN NTTNNQS*K*YRNTSRNPDHND *FLKGMDPKFPKNMHFA*KHN EKGLEKMQDNNMRAEAIKA/L PKPMEVQPRVPKSASRKL/D/LA YTAHPKAGKHARAHIATGLRL CWPKAKAKDQTKAQASASAA APASVLAPAQASKGAQAPMKA LE
18908	49276	A	19017	410	1323	RQEGTLIGVFIPAAAAAAVAA AAAAAAAVAAAAAAAV AAAAAAAVAAAAVAAAAA AV/GTSFSKPHLMEKHEKPS KDSREHKS AFKEPSRDHKNSSK ESSKKPKENKPLKEEKIVPKMA FKEPKMSKEPKPDSNLLTITSG QDKKAPSKRPPISDSEELSAKK RKKSSEALFKSFSSAPPLILTCS ADKKQIKDKSHVMGKV KIES ETSEKKKSTLPPFDDIVDPNDS VEENISSKSDSVPGQSPVTNIF TSSSTPTILKSYQLDNDSDQGA QEASDKQIEGYFSGEVPAYRQG ELILVASRQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18909	49277	A	19018	91	890	GAERLPEPGPKRMVFRFRFEV GRVAYVVSFGPHARK/MWVAIV DVF*SEQGLLVE*PCTQVR/RQA \MPFRMQQLN*FHPSRFPNSAQ ESMFRQA WQK\ADI\NTK WGSP HDGAKKIEAQRKKGPKDDQIF D\RFKVMGEGQKKMREQE*SKE* S*RSFKRAALLEKLSPKKKHLG T*GYCCLLLLLAAAAAAAAA AACCLLACCLKVPSKKRSPAAS KKAPAQKVPAQK\ATG\QKAAP APKAQKGQKAPAQKAPAPKAS QGESISGNHKK
18910	49278	A	19019	280	1249	SLNEGIMYAQP\VTNTKEVK\W QKVLYERQPFSLDKLWWDRRF LGRSSGKNIHAPENTQY\WGCG *FESSVVIQQLCSVCVFVIR\W YMDEGLLAPHWL\VTGLASSL IGYVFLDLIDGGEGRKKSQ\QTR WADL*ELP*SFITFTYG\FSPVLK TLTEFCSALTPIYAMSVFMLLR HLIFFDYG\ANAIV\SSTL\LVN MAIFAS\VCWASRL\PRS\LHAFI MVA\FAIQIFCPGGPML\QKKLK \ACT\PRS\YVGVT\LF\AFSAVG GLLSISAVG\VLL\LLMSISC LC\PFYLHFACSLFKENI/HMGP WDEA\EI\KEDLSPGSL
18911	49279	A	19020	1	310	
18912	49280	A	19021	2	411	
18913	49281	A	19022	374	1275	VLTRLIRKRRRKAQSQRERCR CVLAKDFLAGGVTAISKMAV APTE/RVKLLQVQSAASKQITAD KQYTGVVDCMVRIPKE/QGVLS LWHIGIQFHHKFAAGSLASGAP GATSLCFVYPLDFARTRLAAD VGKAGAEREFRGLG*PAGLRiy KSDGK/LRGLYQGFNVSVQGIH YRAAYFGIYD\TAKG\MLPDP\Q NTHIVISWMIAQT\VTAVARVDF PIPFDTVRRRNE*MQSRAPKEL TIHVHQAQFDCWAEGLLRDEG GKAFFKG\AWVPMLRHHGVG AFCALSLYGWKSKEGTHKLIS
18914	49282	A	19023	461	705	TERKKKGILPGNGNGFMSLRRT IRVWRNTPNYLGNTNAVSP\RD *IGKKGVCQRKQAGPCPPSNQ GILEWRKHRISETKP
18915	49283	A	19024	2	408	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in U.S.S.N. 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18916	49284	A	19025	1	885	MTQHAGKRDELSELPVIVQDTET VPSVMDGKEYQAGRFARGRLRL QCFRRRRRRRRTRRRRRKEEEE EEEEEEEEEEEEVEEEGKKKEE EGRRRRKKKKKKAEEEEKKK KEEEEKKRRRREPPRPND ARRRRKEEEEGRRRSM/LGKRD SELPVIVQDTETVPSVMDGKEY QAGRFARGRLRLQCFRRRRRR RTRRRRRKEEEEEEEEEEEEE EVEEEGKKKEEGRRRRKKKK KKAEEEEKKKEEEKKRRR REEPPRPND DARRRRKEEEE GRRRSMKKEEEEEEEEEEEEE EEEEEEEEKKRRRGPAKMM GGFEELRRGLNVGPTMAIFFLQ SAALAPAILYFCPSLKSNSKCN FQFLMFCQLLGRVTIPFLVSQRS RIEVGRHSLSTLNAETAHEL YLGRTEPDECGKTAGLTGLDLK
18917	49285	A	19026	1	378	
18918	49286	A	19027	36	3415	ESAANAQVLAAPSPCSFAFTL SKVNMSLKNPRVNTSALQKIA ADMSNIENLDRELHFEGEEV DYDVSPSPDKIQEVYIPFSAIYN TQGFKEPNITYLSGCPKIAQVL EVERFTSTTRVPSINLYTIELTH GEFKWQVKRKFHFQEFHREL LKYKAFIRIPITRRHTFRQNV REEPREMPSLPRSSNMIREEQF LORRKLELYLTILKMPMYR NYHATTEFLDISQLSPIHDLGPK GIEGIMMKR
18919	49287	B	19028	37	147	
18920	49288	B	19029	10	264	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
18921	49289	A	19030	3	1255	HASGGRAANMAADRGAVQQQ SQDMMEVDRRVESEESGDEEG KKHSSGIVADLSEQSLKDGEEP GAEDPEEEHELPPVDMETINLAD RDAEDFADLNHYRIGKIEGFEVL EES*RLSCLRQNLKCL\ENLGR ELPESFRELDLYDNQIKKLENLE ALTEILDISFNLLRNIEGVDK LTRLKKLFLVNNKISKIENL\SN LHQLARMLGAGDLNRIRGQFSK YPTTLATNL\ESWFLGKKTITN FQNPGCASPNTVLMSQSNRLT KIEGLQNLVNLRELYFSHNGIE VIEGLENN\NKLTM\LDIASNRIK KI*KISAHLTEL\QEFWDGTTIPL KSWSDLDELEGEPEGALEDSVP WGGNPLARRTPKYRRK\VMLA\ LPSVRQDRCPRSVRFLKSFLGSL MWSLSSEELPSHGVPNPCCS
18922	49290	A	19031	138	564	YREVMVSES*ETPAGARGRPYY FSAPGTA\PAINVHPPPSLSAT PHPPQPQPPPHQHNAKARVAT IRTKRTSNCRIRSRKVRKSPEK WVGFNRRPKASCSPPGAARV DVGGETERREQAAAPGEMGK WARPGEEYFHS
18923	49291	A	19032	1404	1586	ENESRFSDRNQASAGLGLSDS L*QWIVGNNGHATDLWQNCSTS SSGNVHHCFSSSPNGSG
18924	49292	A	19033	187	701	AELAARMLLLLLSIIVLHVAAL VLLFVSTIVSQWIVGNNGHATDL WQNCSTSSSGN\VHHCFSSSPNE WLQSCSRGTMDPVDSSFSILSL FLFFCQLFTLTGGG\RFYITGIFQ ILAGLCVMSAAAIYTVRHP\EW NLNSGY*RFA*ILAWVAFPL\ ALLSGVIYVILRKRE
18925	49293	A	19034	1	493	
18926	49294	A	19035	105	307	
18927	49295	A	19036	32	302	
18928	49296	B	19037	119	641	
18929	49297	A	19038	496	653	
18930	49298	C	19039	568	747	
18931	49299	A	19040	522	656	ESSQSHGKNFYMGKRIKLSLY WNVWRMLNSKSETTNCPLIRH RLSKRVGAPFLPAVLVLTKITIY QT*KFQIRNHKLPSNKTSAI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18932	49300	A	19041	111	277	RHVAVVLGDVGRSPRMQYH ALSLAMHGFSVTLGFCNSKPH DELLQNNRIQIVGLTELQSLAV GPRVFQYGVKVVLLQAMYLLW KLMWREPGAYIFLQNPGLPSI AVCVFVGCLCGSKLVIDWHNY GYSIMGLVHGPNHPLVLLAKW YEKFFGRLSHLNLCTNAMRE DLADNWHIRAVTVYDKPASFF KETPLD\RTHRLFTKLTMHSPF RARSEPEDPVTSAFTERDAG SGLVTRLRERPAALLVSST\SWTE DEDFSI\LALESRV*TTDS\SIG HNLPSLVCVITGKPPREYYSR LIHQKHQFQHQVCTPWLEAEDY PRILGSVDLGVCLHTSCSGLDL PMKVVDMMFGCLPVCVAVNFK WQEQNPNLSGDSFTDPLRRKQ CRASCQP*GPAPGLHELVKHEE NGLVFEDSEELAAQLQVLFNSF PDPAGKLNQFRKNLRESQQLR WD*SWGATPNPMMSSCRTTE
18933	49301	B	19042	110	2294	
18934	49302	B	19043	81	1538	
18935	49303	A	19044	21	1158	AVVAALPTSSSSRHSLTQKPGS RRLRIESLLPPSSCEIFLIFSIFR LCEKPYHQTRSASNVNTKTDPR SMNS\RVFIGNLNTLV\VKKSDV EAFISKIYKGIVGCSVHKGLCLS VQVMLMRRNAPGLL*QGE\DG RMI\ALQVLDINLAAEPK\VN REKSSVKRSAAEMYG/SQ*QNT LLRPLYFSSSFDLDYDFQRDY DRMYSYPARVPPPPPIARAVVP SKRQRVSGNTS\RSGRGFNSKE WNSGVSSKFWKR*KGDDLQ\AI KEELTQINQ\VDSSLLENLEKIE KATGANKQLEMK\ND\KSEEEQ SSSSREGKMRTNVKDG*GGV PDDSAEGGGPTWMNDDNVKS GGMTSWELIKDDEKEAEE\GE DD\RD\SANGGG
18936	49304	B	19045	93	303	
18937	49305	A	19046	1	246	
18938	49306	B	19047	123	487	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
18939	49307	A	19048	584	1664	SGLFLFLFFYSEIFLIFSIFYRLCE KPYHQTRSASNV TNKTDPRSM NSRVFIGNLNTLVVKKSDVEA IFSKYVGKIVG/CSCFIKGFAPFK *C*EEMPRACCSGRRVGRIDLL GQVLDI*PGLAEPK/VNPREKPG VETILPAGDVRGQ*QNTLLRPL YFSSFDLDYDFQRDY YDRMY SYPARVPPPIIARA VVPSKRQR VSGNTSRRGK/SGFNSKEWNSG VSSKFWRK*KGDDLQAIKEEL TQINQKWDLSLENLEKIEKAT GANKQLEMKINDK/SEEQSSSS REGKMRNTNVKDG*GGVPDDSD AEEGGPTWMNDDNVKSGGMT SWEL/KDDIEKEAEE/GEDDKR QGPMARND
18940	49308	A	19049	158	1001	KRLGSSAISMSKYKLIMLR/HGE GAWNKENRFCSWVDQ/KLNSE GMEEARNCGQK/LALNFEDFL VFTSVLNRAPITARI/ILAEELGQ EWVPVSSWRLNERH/YGALN GLNREQ/MA/LNHGE/EQVRL/W RRSYNVTPPIIE/SHPY/YQEIY NRPGGIK VCDVPL/DQLPRSES/ LKDVLIERFLPYWNERIAPEVL RGKTLISAHGK*AVGALLKHL GRYPSGLKTSINIYSFLLGVPIIL VELD/ENLRAVGPH/QFLGDQEA/ QAAIKKVEDQGVKQAKK
18941	49309	A	19050	1	521	SASWVGAMASRVLSAYVSRL PARFAP*PRVRMLA VARHLST ALCSEGQTQLGTLQPALVLA/ QVPW*ELHMLCRQYSDMP/PRL TLEGIQ/DRVRLA*LKTLSDKVD PREAFQ*ILIIFMKDLGLDSLDP KWKIIMALEDEFGFEIP/DIDA EKLMTPPRKLVDLHCQDKKD
18942	49310	A	19051	1	516	IRALTMWRRALLAGTRLVWS RSGSAGWLDRAAGLR/DCG/TA ASGMESNTSSLENLATAPVNVQ IQETISDNCVVFISKTSCTM AKK/LFHDM/NVNYKVVELDL LEYGM/QFDASLQK*LVERTV PRIFVNGTFIGGATDTHRLHKE GKLLPLVHQCYLKK/SKRKEFQ
18943	49311	A	19052	825	1080	KRKIHQNFHKLKSLKKAIEKDYS ESGSSVNYKKIRPTDNVVIKQ YWPGAVAHTCNSSTSVGQGR WIT*GQEFETSLANVVKPHLY
18944	49312	A	19053	80	429	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, * = Stop codon, / = possible nucleotide deletion, \ = possible nucleotide insertion)
18945	49313	A	19054	3	752	FKNAVGNLAMEGGGIPLET LKESQSRHVLPAFSEVNSLQKS NWGFLTLGLVGGTLVAVYAVA TPFVTPALRKVCLPFVPATTK QIENVVKMLRCRRRDPLWDIGS GGRDGIVHRLRRKGFTAVGF MEFKPMG*FWVFPRYRAWRE GVHGSAKFYISDLWKVTFSSQYS NVVIFGVPMMLQLEKKLERE LEDDARVIACRFPFPHWTPDHV TGKGIDTVWAYDASTFRGREK RPCTSMHFQLPIQA
18946	49314	A	19055	157	829	TWKGDDPKKPRGKMSSYAFFV QTCRGDGHKKKHPDASVNFSEF SKKCSERWKTMSA*R/EKGKFE DMAKA\DKARYEREMKTYIPP QRGRQKRKFQDSQLHPRRPPSG LLSSSCSEYRPKIK\GEHP\GL\SI GDVAKKLGRDVGINTAAD\DK QPIYEKK\AAKLKEKYEDIA\A YRA\KGKPDAAKKG\VVKAES KKKKEEEEDEEEDDEEEEEDE EDEDEEEDDG
18947	49315	A	19056	85	267	GHLSHA WCGTYKPWPSPKEQS RAWKKGDLFPFPP/PLFPTGLK VRGRESF*SVELIRPQG
18948	49316	A	19057	1	1158	
18949	49317	A	19058	452	517	
18950	49318	A	19059	93	1069	YEGVTTSRPELPRGCLVLQEQ ELVQMSGMEATVTIPIWQNK HGC/SLRSVVRIGTNLPLKPCA RASFETLPNISDLCKRCAPSSL PWL\AWLGLAE*KGSQKARV RSDTRPLRHTWKPSPLIVMQRN ASVPLRGSEERLLALKKPA/L ASPKAALLSCRTS*ATLRTKICK DSGKLMQLRLH*RQISYLQEVQ MSLLPLPCFGSSFHSTTSFCH**/ PSPRRQRWRSLSFHQSPCFVLP ALNVANQNTKLPAVRLKRMTA SLCPRPAALQDMMGILKGLFTG MKQSQDLNRSLLKEEDPAVLIS EVLRRKFALKEEDISRKGN

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
18951	49319	A	19060	162	1410	GQASCPPPALGQQTTPASSYTVQ IQTYAPSSPHPRQGGPGQSSDPR GLRGAI PRGRQGGV*QQGPRC RPPSPVLPHIPQLSCCGHDGRD PEEGLGILELTLHHHAHPWSPN SW*KDSVSPHGEPFAHSEPHSR DQTSMAATTKHEVQPLPQASLS QPSLGGCLVDWLRQLRTTQGS /PQDAAQDSTWERP*DAS/GKP WLL*PGVPTPGPCQAKERKPP FMGNCL*SRVPWPSRLPEEL/P AMPLAPPVAGEAAGPASSHQSL SPSQDPTPLPGADRREKERGGE EGSSWPQTPLTTHTTSPPEKQ QQIESPPIRLSSFKTGHLASSGH SYAIKPNSTKAKEVGQVRVPR SHITIREQRQGRPGEHRRTER DAKPGQEEDHQATVVSQKLGT DRRLIKKQRTSVLSATAES
18952	49320	A	19061	1	340	GSVSGTTLNLGLFWSSPGTSP LEPPCPWLDHIFVPWKDVA FGEGVCLPPGAPQPRRICPRRG QQPEFQQUEETIPERTPADPGV LPPAFPGICLPRRLRAPDPGPA A*AVPPVADA*GSVSGTTLNLQ LGLFWSSPGTSPLEPPCPWLDHI FPVPWKDVAFGEGVCLPPGAP QPRRICPRRGQQUEFQQUEETI PERTPADPGVLPAPFGICLPRR LRAPPDPGPA
18953	49321	A	19062	3	396	IPLASLHLALPGHQRGPPPPGRLP SCSSQGTVPPRAGPYQAGCPG TAPAPAAPASAPWSAPQASATG GTAHAAGPGSGGARSLPPARA HPPARCWQGRPLRSLLL*PSSVP ETGGPEKARLVKALSPNTAP
18954	49322	A	19063	563	1269	LEESTGRITHFKATLHCTMSNN LA WGGTKWLQESRVFFHIRRLP SDASAGPGCVYRVVPDGGSQ RPQGAPP*AAQA/GTPRGRPP/P GAPSALLPPPSGTSVGPGLQ QRRPPTGGQEDSPTEPGFWKPR WRSHLATSLATRCTMQGEPA AHPGGRGPAASEERHQRGPPP GGCFAALRYCATPRPDLGRCP GTAPAPAAPASAPWTRLRHQPL AAQLMQPGQVWWGPAASW

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
18955	49323	A	19064	1	1158	MELKAKARELREECERLSRCD QLEERVSMENEMNEMKREG KFREKRKRNEQSLQEIWDYVK RPNLHLIGVPESDGENGTLEN TLQDIIQENFPNLRQANIQIEI QRTPTQYSSRRATPRHIIVRITK VEMKEKMLRAAREKGRVPHK GKPIRLTADLSSETLQARREWG PIFNILKRIFSPQRGGTGGRRM VKLTAEIEQAAQYTSAVRDRE LDLRGYKIPVIENLGATLDQFD AIDFSDNEIRKLDGFLLRLRKT LLVN/NNRIC/VLDFQKVK/LK ERQEAEMFKGKRGQAQAKDI ARRSKTFNPGAGLPTDKKKG PSPGDVEAIKNAIANASTLAEV ERLKGLLQSGQIPGRERRLGPT DDGEEEMEEDTVTNGS
18956	49324	A	19065	2	431	RKLDGFPLRLRLKTLVNNNRI CRIGEGLDQALPCLTELILTNNS LVELGDLDPASLKSILTYLSILR NPVTNKKHYRLYVIYKVPQVR VLDFQKVKLKFNPAGLPTDK KKGGPSPGDVEAIKNAIANAST LAEVERLKGLL
18957	49325	A	19066	92	303	NCFLVFSPARSTVGEFASMSSE ECI*MHVVF/LFPLTLCVVS/LYER QEAEKMFKGKRGQAQAKDIAR RSKT
18958	49326	A	19067	208	293	LLLLWWFPLGPTDDGEEEMEE/ DTVNTGS
18959	49327	A	19068	22	904	ARNPWSHASGWREATGFPQR GGTAGCTMGKLTAE/LIEQAAQ YTNAVRDRELDLRGYKIPVIEN LGATLDQFDAIDFSDNEIRKLD GFPLLRRLKTLVDTTRICGIGE GLDQAILPCLTELILTNNSLVEL GDLDPASLKSVAIYLYLRNP VTHKKHYRLYAIYKAPHVRL DFQNVKLKERQKAEKMSK GK RGAQAKDIAARRSKTF*FPGA GLPN*PKRKGGS/SLPGDVEAIQ ECP*QNAFNSGLKVERLKGVCC KSGQIPGRERRSGPTDDGEE MEEDTSHQTGS
18960	49328	A	19069	1	395	AINYNEKIYELRVMETKPKDKA VSIIEDCMNVDFDAP/LGYKEPE RQVQHEESTEGEADHSGYAGE/ LGFRAFSGSGNRLDGKKKGVE PSPSPIKPGDIKRGIPNYEFKL/ EAGGRFVAFSGEGQSLRKKGR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18961	49329	A	19070	1	1108	
18962	49330	A	19071	353	693	GSLFLVKRREP/R/VQHEELTE GEADHSGYAGELGFRFSGSG NRLDGKKEPSPIKPGDIKRGIP NIIEFKLGKTFIRNACPLVKKF EEDEAGGRFVAFSGEGQSLSKK
18963	49331	A	19072	2	1112	RLGAAAAAAGRAVGGVSSL HCPERSGVCQVVSI MFSFNMF HPIPRVFQNRFTQYRCFSLSM LAGPNDR/SSIGEKEGKIIMPLG PGTKLSRL*HYRIPMLFK/LTNK NSGPHGRHCGVAGSLWA**GA SAYLPHWDDGRYSLGRKAA WVQGGRSVNLSSGPLISNFQPP SPDFL/DITNP/KAVFEN\ALRNF ALS*PPGDV\AINYNEKILRNCV VMETQTPTRPVSHH*SVNH*TV EL*LLPPGATKEPRKDQVQP*G VRTEGESRPHSGYAWKSLGFP RFSRSGSNRLDGGKKGVESP SPIKPGDIKRGIPNYEFKLGKIT F/VSRNSRPLVKKVEEDEAGGR FVAFSGEGQSLRKKGRKP
18964	49332	A	19073	1	415	SGGGRNRSATGWSVGT MAGIT TIEAVKRKIQLVQQQADDAEER AERLQREVEGERRARE/RGMK VIENRALKDEEKMELEIQLKE AKHIAEEADRYEEVARKLVII EGDLERTEEPSLSWQESKCSL EELKNVT
18965	49333	A	19074	1	421	
18966	49334	A	19075	3	388	
18967	49335	A	19076	1	1332	
18968	49336	A	19077	49	483	
18969	49337	A	19078	227	1030	AVSVWGT MAGIT TIEAVKRKIQ VLQQQADDAEERA/ERSQREFR EERRARE/QA/EAEVASLN/RRIQ LVVEELADRAQERLGHCPCKKL *RS*KKLADESERY*RLFEN/R ALKRLKEKIGTSREIPTS KKP HCRKEAD/RKYEEVARKLG LKDLETERE/ERA/ELAESRC*EI DEQIRLIDQNLQCLSAEEDKYS QKEDK/WEEEMKILTDNLKEAE THAELAERSVAKLEKTIDDL KLCKTKEHLCTQRMLDQTL DLNEM
18970	49338	A	19079	50	864	
18971	49339	A	19080	1	1014	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \=possible nucleotide insertion)
18972	49340	A	19081	1	1650	MGFHHVVGQAALLLTSGFQSQT QELQKFLFLFLVYVTTIVGN LLIMVTVTFDCRLHTPMYFLLR NLALIDLCTSTVSPKMLVDL HETKTISYQGCMAQIFFHLLG GGTVFFLSVMAYDRYIAISQPL RYVTIMNTQLCVGLVVAWV GGFVHSIVQLALILPLFCGPNIL DNFYCDVPQVLRACDTSLLE FLMISNSGLVHWFLLLSYTV ILVMLRSHSGKARRKAASTCTT HIIVSMIFIPCIYIYTWFPFPL MDKAVSISYVTMTPLNPMIY TLRNQDMKAAMRRLGKCLKG PAVAVGPGPGDAEAAAEER RVKVSSLPSYVDALVSDKKPPK EASVPVAKSASSGATLRLLLP GHGAREAHSPGLIKPFETASV KWENSQDGAAWMQEPC*YSP PPRHK\HKTNPKPRTAFTTSQLL ALEGKLLQKQYLSIAEGADFSS SPNL TETQVKILFQNRRAKTKR LQSELEKLKMAAKPMLPSSFS LPFPISPLQAASIYAASYPFHRP VLPPIPVGLYATPVGYGMYHLS
18973	49341	B	19082	62	440	
18974	49342	A	19083	1	902	METEALMPGLGVAVAGAQVTL GFLALETQLPFTGHKRILRFFS SPRDPPHVPSKGLKRKGARR GRTFALREAEPQRLPSLSRAFQ TLARPYARLVPRGNPVVPFLA GSAEAAARAATCERQARTCPM PGVTVKDQVNOQEFVRLAAFL KKS*VGKLVPEWVDTVKLA KHKELAPYDENWFFYTRAAS AQAPCTIRGGAGVGSMTKIY GRQRN/GVMP/SHFS/RGKS/VA RRVPPKWRG*KMVEKGTKNC GPQNLTPSRDKRDFGTEFAGQV AAANKALEQIHCFGLIKLAHS
18975	49343	A	19084	1	673	AGPDAAESERVPEGAAPGAGP SRPLEPRPRASGRPGHGRCLGV TVKIDVNOQEVRLHWAFLS KSLR/LRVS*TVPEWLDTVQAG QAQKSLLPYDENWFFYHAELAS TAIRHL YHPSALGVGSMTKIY GGTSETASMPKLSARGFQEI WARRVLQSPGRGLKMGGRD QELRAAKLDTFGQKRFWDRI RRNRLAVAYKEALEQTMAGV NKLQFVKKKKK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
18976	49344	A	19085	1	427	HPVRFVHRGPH/VDFSLEVV QWYELVFTASMEIYGSVAD KLDNSRSILKRRYYRQHCTLEL GSYIKDLSVVHSDLSIVILDNS PGAYRSHPDNAPIKSWFSDPSD TALLNLLPMLDALRFTADVRSV LSRNLHQHRL
18977	49345	A	19086	2	832	WNSAELGRGGPGAGGAGVIGM MRTQCLLGLRTVFAAALWS FFIYLLRRQIRTVIQQYQTVRYDI LPLSPVSRNRLAQVKRKILVLD LDETLHSHHDGVLRLPTVRPGT PPDFILKVVIDKHPVRFVHKRP HVDFFLEVVVSQWYELVVF/TA SM*EYIGSAVGRLNWDNSRSIL *GGRYVYRQHCTLELGSYIKDP LLWFHSDLSIGIVLIDNSPGAYR SHPGYGR/DNAIPIKSWVSVTP ANTAILNLLPMLDALRFTADVRSV LSRNLHQHRLW
18978	49346	C	19087	69	206	
18979	49347	A	19088	312	438	
18980	49348	A	19089	635	826	QWISLWKCYKPEESGGQYLI KKSIFNDEFHVKNP*AS*GKEK* TPLQTSNC*GILSPGPL
18981	49349	C	19090	1	390	
18982	49350	A	19091	336	551	ARPLGSLASAPFPAPM*NVYPT GP*YNADCPNVTAPVCA SNHG TFQNECFVCVEQREFHYRKFE KYGKCD
18983	49351	A	19092	76	309	KGRFVIALTFTT*HSNLEKSCSK ICKIKNKSIVCKHQLAKSIQSPS **WNGMNN*FTTLFICCHNTEK TFIHCGKRP
18984	49352	A	19093	181	447	NKYQTDNIKLSNDNL TIGHQTG NTTAHC/RYIMLFRSFQQA/IT ILS*YRKNIYPLWKETLKRMMWQ RHREKVGSEKVNIDKILFHHW
18985	49353	B	19094	1	639	
18986	49354	A	19095	1	160	NLHSQLMWNQIR*LTSV*LEL LCKNPNRVATRDQLLCLSGHL GMGRILEGG
18987	49355	A	19096	2	456	YKNTITDYEHLYAHKLENLEE MNKRRASTICTETIPKKLRRRD SSLTHSMRARRLSVDVDPQDRS RGPSECTIFRAGVPEGTRGALW LPHFQTESDPGSKPATLLVIHP DELQIYVRTKTC/T/RMFIAALFI IAKT*KQPRYPSCITST

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
18988	49356	A	19097	138	1193	LCFFGQHAPIYCSLRHSLLSVTR PASLICCLPGSHRYLEFVLLLLK HHR LHEDLNHCPIGSRSGRDVR SQTTEQEHVIAMPFPLRKLEPL HSGLYSHSCSRYLAWLALA TGGAARSPPAISILQPQEPSVTPS DTQRACGRSTEA FESKEQKASV RVETTVSFSCSIKVDGGLLEPKR ADTGWHGHCRPASITPAGWV PARYLLYVFFSRQCVLMSVCGP QYTRGEIPGAVLKEECLPSLLT GRFDLSGRARRLSVDVKPQDRS RGPSECTIFRAGVPEGTRGV LW LPHFQTESDPGSKPATLLVIHP DELQIYVRTKCT/RMFI AALFI IAKT*KQPRYPSANTLLL
18989	49357	A	19098	3	247	
18990	49358	A	19099	1	1048	MQLKPM E INPEVSARCTATRR A RGRGRGSRVADRF GFAFFFAFA FQMLNKVLSRLGVAGQWRVF DVVLGLEEESLGSPAPACALP ACLFLPTAQHENFRKKQIEEL KGQEVSPKVYFMKQTIGNSCG TIGLIHVAQ*SKTNLGFEDGS VLKQFLSETKKNVPLKDRAKC FIEKNEAIQAA\HECRGTRKGQ CRVDDK\WNHFHYSG*PTVDGP PSMNLGD/RMPFPRGPMAPS/Q GDTLLEGRFPRSCRRISPRREQR RSPASSARGFSCKGSLNALWGG TWLISPLSPQHENILPPHASLKC FSTCETQAVLLFCQTRPSQPHP RHLSTSRVHSCPLGHCGVSFRW
18991	49359	A	19100	57	450	VGDCLTSRGMWVQATLLAR/ ALCRAWGGT/CRGALTGTSISQ VPRLAP/RGLHC SA/ASVSSEQS LVPSPPPEPRQR/PPGGERDKASF LQTVQKFADTSVVDSGHIDFIY LALRKMREYGVGERDLAVYNQL LNIFP
18992	49360	B	19101	307	390	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
18993	49361	A	19102	431	1267	SGTRITSTAARTSRTWRS*TPLL ACTPRPCGSAKLATATSRTCIRP *SPSATQTLTVTKVPLPKDSTG AADPPQPHIV/GAQGMVYVTPG IQSPDQQAALARHNPAPRVFVE GPFSLWLRNKCYYHILRADLL PPEEREVEETPEEWNLYYPMQL DLEYVRSWGDNYEFDINEGKE QHVFI/LCSSGEC*ILRRRQNV*R LLDW/LAGKALTSTPTCAPKITC VPLALPTPYCSGQNLNSSCSMT SVSDHLSVPVPTLLSTISKAHGTP PPNTKVTVTKVTVRQ
18994	49362	B	19103	49	691	
18995	49363	A	19104	89	95	VGDCLTSRGMWVQATLLARG LCRAWGGTCGAAL/SQEPPLSLR SLASLPRGLHCSAAHSSEQSL VPSPPPEPRQRAHQGSWCPLR/VP VLGGQAGLGERGQGGAFL/LD GCRNLRTTSVRKRGPV/VDLFY LALRKMREYGVVERG/DLAVYN QLLNIFPKVEVFRPNIIQIRIFVHY PRQCEGIAVLEQMENHGVMP NKETEFLLIQIFGRKSYPMCLKLV RLKLWFPFMNVNPFVPRDLP QDPVELAMFGLRHMEPDLSAR VTIYQVPLPKDSTGASKIPPKPH IVGI/QRSPDQARPLARHNPS/R PVFVIEGPFSLWLRNKCVCV/Y HILRVADLLPPEERVRA*SKACV GAGEWAGTTLRVHGRGWRE TERALASDPACTPHLG/EEVEET PEEWNLYYPMQLDLEYVRSWGD DNYEFDINEVEEGPVFAMCMA GAHDQVATMAKWIQGLQETNP TLAQIPRGLSAFAGSTRKLQTS SAGLEPP/HCPRTTKEEDNLQ RQSRAS*SPCAGIRAQQDRA GLESAAGRVSR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /possible nucleotide deletion, \possible nucleotide insertion)
18996	49364	A	19105	1	1199	EFGALRRTRLGSSFFRRRDSSA MESYDVIANQPVVINDGSGVIK AGFAGDQIPKYCFPNYVGRPKH VVRVMAGALEGDIFIGPKAAEHR GLLSIRYPMEHGIVKDWNDME RIWQYVYSKDQLQTFSEHPVL LTEAPLNPRKNRERAAEVFFET FNVPALFISMQAVLSLYATGRT TGVVLDSGDGVTHAVPIYEGFA MPHSIMRIDIAGRDVSRFLRLYL RKEGYDFHSSEFEIVKAIKERA CYL/SINPQKDETLETEKAQYYL PDG/STIETGPSRFRAPELLFRPD LIGEESEGIHEVLVFAIQKSDMD LRRTLFSNIVLSGGSTLFGFGGD RLLC/VKKLAPKDGRIISAPQ ERLYSTWIGGSILASLDTFFKKM WVSKKEYEEDGARSIRKTF
18997	49365	A	19106	1	3288	MPSSGGDQSPPPPPPPAAAASD EEEEDDGEAEDAAPAESPTPQI QQRFDLCSRLNMDEAARAEA WDSYRSMSESYTL/EGSGLWLP RGLFGHPGCTGLLLLRSGCV RSQPSDRACR*EK'CHSSHLEFF NKMKKWEDMANLPPHFRERTE RLERNFTVSAVIFKKYEPIFQDI FKYPQEEQPRQQRGRKQRROP CTVSEIFHFCVWLFYAKGNFP MISDDLVSYHLLLCALDLVY GNALQCSNRKELV
18998	49366	A	19107	56	3552	GPAAQGCAMPSSGGDQSPPPPP PPAAAASDEEEEDDGEAEDAAP /PAESPTPQIQQRFDLCSRLNM DEAAARAEAWDSYRSMSESYTL EGNDLHLWALCALYVACRKSV TVSKGTVEGNYVSLTRILKCSE QSLIEFFNKMKKWEDMANLPP HFRERTERLERNFTVSAVIFKK YEPIFQDIFKYPQEEQPRQQRGR KQRROPCTVS*NFSIFCVWLFIC AKGNFPH*LSDDLVSYHLLLG ALDLVYGNALQCS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, \ =possible nucleotide insertion)
18999	49367	A	19108	1	1193	GRRRRFWWRKRIGGGGGGMA MPAEAPWMASFFNGFLSLPPG WLLLPSPDRNPPLQPSSRPPLC VRMWMNAFTPLISLFFWASLV SSGARRLHPIQPQPCREQAPMP APGAARSVAASMSDCTVAGP CTGSHTPCHSTSDSQSP/CGGVG SSLVV*AERSCAQCRMSPRKGH \CCCCCCCCCCC/SCCCYCHYC CCYCCCCCCCCCCCCCCCCC CCCCCCCCCCYCCCRCYCCC CCYCCCCCCRCCCCCCRC CC*HYCCCCCFC/GCCCCRYC CCCRYRRCYFCFCCCCCYCY CCC*RTAHAWPSMNKSQCVLP/ CICKVPLGR LAVTTGCPGFG*G GCWEDCMFFPAKGPSIRLEQWFS TTAILLPSGPGDFWQYLGTLLV VTTREEVLES GG
19000	49368	A	19109	1	762	GTRDATAEENRVLLAMVNPTV FFDIAVDGEPLGRVSFEVRGLD TKK*LLI*SIKLC*QIGSSIFITS D*KNSCLPLIVQQCLFLRILPL FADRVPKASQKIFVALS/TGEKG FWL*GVPCFHLRFP/GFYVSRGG DFHTAINGTG/KSILWGENLK DENFRLKHTGPGILSMANAGP/ NTNGSPVFLTSCTA/KTEWLDG K/HVVFG/KVKEGMNIVEAMER SLGPRMGKT/SNKFTIADCGQL RIKFDLVFYL
19001	49369	A	19110	95	240	LHSEITVCL*GSEHHFFENGTYI PHRSCHDPLEARAEDFL
19002	49370	A	19111	1	1644	
19003	49371	A	19112	237	632	AIGFPSYSSMQLVNIFGLLNLFSI ISSFRHQG*HS*ELPYPLEPGA EDFLR*GP/LAGHGHTGSQPFPC RVSEA/CGSHLVNSSRAALKRW AGV*RKIWPRGSPETPRNLKDL SVLEYENTPDTSGKKALED

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19004	49372	A	19113	274	2704	GISVLHGCGRYRFQPRGMAAPGP FSEKPVPGCDAGDLQTPALSSW TQTFIISHEQGIKFLNQRWSCWS KERNHGHCRVRGHVTAACQCDL FGNGLKHNLDLHHDRNDASK NVKKSTNYGKMSFYTYCECTP TGEKLWDHNQHRKIIGYPASS QDQKIYSGEKSYECAEFGKSFT WKSQFKVHLKVPTGEKLYVCI ECGRAFVQKPEFITHQKTHMRE KPYKCNCEGKSFFQVSSLFRHH RIHTGEKLYECSECGKGFPYNS DLSIHEKIHTGERHHECTDCGK AFTQKSTLKIHKIHTGERSYIC IECGQAFIQKTQLIAHRRHSGE KPYECNCGKSFISKSQLQVHQ RVHTRVPKYCTEYGVFSNNS NLITHEKIQSREKSSICTCGKA FTYRSELIIHQRIHTGEKPYECS DCGRAFTQKSALTIVHQRIHTGE KSYICMCKGLAFIRKAHLITHQI IHTGEKPYKCGHCGKLFTSKSQ LHVHKKRIHTGEKPYMCNCKGK AFTNRSNLITHQKTHTGIEKIFI CSKCGKAFTQRSDLITHQRIHT GEKPYECNTCGKAFTQKSNLNI HQQIHTGERQYECHECGKAFN QKSILIVHQIHTGEKPYVCTEC GRAFIRKSNFITHQRIHTGEKPY ECSDCGKSFTSKSQMTVEH*AV HSG*KPYVCAECGKAFFSRNS LSKHQKTHTGEKPYICSECGKT
19005	49373	A	19114	3	180	
19006	49374	A	19115	95	433	PVLRTHPGPQSLPRVPGVPCGG LLEPLSRAEVSRLGLRRDLG GMAPSGSSTVFLLALTIASTW ALTPHTYLTKHDVERLKAASLDR PFTNLSEAFYSIVGLSSLGAQVP
19007	49375	A	19116	196	706	ISISNETKDLLAAVSEDSVTOI YHAVAALSFGFLPLASQEALSA LTARLSKEETVLATVQALQTAS HLSQQAADLRISVIEEDLVARL DELGGVYLQFEEGLAETALFV AATYKLMMDHVGTPEISKEDQV IQLMNAIFSKKNFEVSLSEAFSV ASAAA VLSHNRHYH

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
19008	49376	A	19117	275	2192	MVVSPQGSSTVFLALTIASTW ALTPTHYLTKHDVERLKASLDR PFTKRLCFSWFTTCVTT*H*LFP TV*KACTYIRKSLPCLPQIAKT CSKTLCLPILS*ISISNETKDILL AAVSEDSVVTQIYHA VAALSGF GQVREGVSG*NKCTHSLGFYSL PSRTVDSGSCISFLL.LLDIQHISV LLWQDLVARDELGGVYLQFE EGLETSTAVALPPSQQRKRNSCI SHFFQDQVIQLMNAIFSCKNFE SLSEAFSVASAAAVLSHNRHPR NKILCSCSLCCNK*FFIYFQLQV TNVLSQPLTQATVVKLLFVISM T/RT*VLAKPIVILNRDVFELNF MNVKFYICM*IPEHPIDLATVF SIFL*LRVKISTDIFSACSQRYPD PL*RLTYASFRVTYPAKAKGT FIADRDSMLGPGRILKLSDERL YYSSI*TFVRLHNQKTGQEVVF VAEPDNKNVYKFELDTSEKIE FDSANII*VSPSTSLPCFYRLSL FF*ADVVINPGIHGCPYWEHGIL KSSWCVFQRHLFREPEKSWHG LCCFPFK*CLFNFLPIIQWILT FLNRRASLCFI*LDVMTPLAA MLGLMYVYWTQLNMFQTLKS LAILG/SVTFLAGN/RMLAQQA
19009	49377	A	19118	3	413	PRKEAPSTFLSQ/NLFTPKQEIQ/ HLFREPEKR/PPTVV/SNTFTALI LSPALLLFALWIRIGANVSNFT FGLPSTNIFHWGHAAMLG/LSM YVY*TQAQPCSQTLVWPWILG QCDRFLAGQSGMLAQRATVQE NQHN
19010	49378	A	19119	2	535	GRVDPKAKKEAPAP*SLKPKA *AFKGPRKAVLKGVHSPQKA GRSRTSTPPFRAGRKTADSR PAPKIIILKRSRVPGGNKLD/HYA IIKFPADH*SASAVKKIEDNNT L/VFIVD/VLKANKH/QIKQGCE RSLYDIDVGQGGHPWIRPD/GE KKAYCSTWILDYDGGGMFAN QNWGSI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=-possible nucleotide deletion, \=possible nucleotide insertion)
19011	49379	A	19120	159	801	GAAGRRRLPEGEDEASAWR RLARCLMPKKNRIAYELLFKE GVVMVAKKDVMMPKHPLEAE VKNVPQPFMVMKGGHAGLSSPR GIYVKGTSFAWRHFLTGLTQ* GVSQYSPWITLHLAPGRFVPCP PLRPVARPRRMGRPRPKKVLG GVEATWRGFHKRGEVDRGYL TRRSACQQLGAIDKKSRGWGL GSSNPNFQFRG/GF/GCGRGQ/PP
19012	49380	A	19121	334	989	EPPAETLPVAARDPTGLSPTVLS SHKHEKFQQRHFVPLVGYPIA SSGASPEVRQRRITFFRFRPGES LCGDMKLLTHNLLSSHVPAGG SLPFSGGMVGRGPVLA*TP/LAL QATEGRICPVEINPQLRGRVMI P*KWKWSIAFLEAGPDKLAV*I PGARKPG*GDMRENEEFS*GP WHHLACWEVGSD*EGTLQVP GNLGRYFSPFKPRGSPNMLAE
19013	49381	C	19122	61	177	
19014	49382	A	19123	4	191	
19015	49383	A	19124	1902	2187	
19016	49384	A	19125	55	340	GELVLKALSAFIRAFRCPAEGS DPVGRAADPSPAPRGISQGGG ACGSPFLPGPITESLPLPGLGSG SELPSTLYLSGIYGGVRRGPPA RLEA
19017	49385	A	19126	1228	2447	TSQGSSPPAHIGRWSSNHKKGL GSSFSQSCCKAEALVKNAWPPT QA*VSICCFEQDLGRGQKQKGS GGKWQKTAESREAVTECPACY RAARCRAAGDRGLRAEGAAAG HTASPSAYRVRGGRGHRDMHS ASARLSHPGETNMLGLAEPSV TSH*SHPFQGS*LP*QAGP**EM/ PLPPSARDSSDLCSG/SPSHDLLP LPNTVIFWGPSSPDWQPLPLSP FCVSQAAGSPCSPLLQGLEPGGI STSCPPGPAPYIDFGAVSGAGQS AAQRGAHFPAAMAERPSAGTS GSSGISGAIAATVVSWSVAEGEQ AVKCLAEGSTRTQTQPSRRAPS RGCPAGPAGPGRAPPAAPPAA PAAGGGRGPPAAPRAPRPFQ QGAPRPVSPCRGTGAAPPPTLV WGLSSEAG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19018	49386	A	19127	164	563	CEAALKGDSGGSPWPDEKPKPE GVKTENNDHINLKVDGAEMVT VVQFKIKRHTPL**T*LKAYL* TDRGLSMRQIRFRI*PGNPIN*K QTHLHQLGNGRIEDYNLMCFQ QARPGGVYLKKGCTCFYFSKNS VSF
19019	49387	B	19128	166	426	
19020	49388	C	19129	76	285	
19021	49389	A	19130	3	179	
19022	49390	A	19131	93	172	
19023	49391	A	19132	1	2742	
19024	49392	A	19133	1287	2571	ILRQWLLASPEEKTGRPALASG SAETLSWLRAQGREPRGPA*SA VGAEHRTRTAPGSDPRCGILPS GRSPSP/PARLFLASVPATI*AM TPSPTRLPAWPPPCRG/PDASPE VVRKGGKAGQPRGSPQWRSG AEEIVEVGLLPLTPRALLFPQVP TALPAVYHFLAACEGICPHSCA APSMIELWDFLIQHQPEKAVA CTTTHIPGLRISALNKHRAWGG TDDDDVAASEMPLGAAGAEPW D/VE*LLPAALKIPTGHTATTTSW GAGP*SPQGSCKG/SGVSGGAT ADLLAPTAGVGTSTRACGGGT QFMSEGA PGVMNNGSPDWSST QFMSEGA PGVMNNGSPDWSSN LSQPQPMHLLYLTTWFLERPM CCPDTTALTQTLPVPFSFYPVCT SHIRQNPHLHFLAPSPHYTTA CSFEPQRFEQQQDLL
19025	49393	A	19134	31	202	ILITYIHKLINQADFSTP*FMSHLI VSSRIILCTEKNWFHFPFHF*D*Q QTFCTLQFL
19026	49394	A	19135	410	867	LLTLSRTTPLMSLGFPGIPKMIN RPRQSSPIKLQNSSLSNLLFFQ EDSSTLDSGLERSQGLDSTGGG EDICRVWTAS*SFICLSDPQKVQ IQSAFNRKAWCLVILVVVSHSS TPFSWQKVMKWIKISFRVFAA GQGLLGGYSNPRYSFSF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
19027	49395	A	19136	111	743	VITILTPMLADRTTRRIERPPKKK GTTSLGQRKWLTLQDWPSVYP VAHPFKPSAVPLPVIRMGYPV KKGRAHGDRGNLELLKISQFF WILTSCSNLKSTCEALKDFCTG VGQPHWDSGRKKMLKKHFSN WKFGQHLDLCLFHQGPSGSGNP RARVVVLKSKAFLV*/*HDHAK KTLITLVGERYCKTPDVLTIKQ NRWPLRSQITIMPVYL
19028	49396	A	19137	305	2291	YLDAEKMGQKASQQLALKDSK EVPVCEVVSEAIHVAHQKLKE YLGFEYPPSKLCPAANTLNEIFL IHFIITCQEKGVDEWLTTTKMT KHQAFLFGADWIWTFWGSNKQ IKLQLAVQTLQMSSPPPVESKP CDLSNPESRVEESSWKSRFDK LEEFCLIGEDCLGLFIIFGMPG KPKDIRGVVLDVSKSQMVRSH LPGGKAVAQFVLETEDEVFIKE LLRNCLSKKDLREGGASPGSL RLAAGPPLTLNAACPLRLAVL AAMAAAAALPAWLSLQSRARTL RAFSTAVYSATPVPTPSLRVDD LHLTEIVGMLDSVLTPESSGK YRFISGEVLCRITGCTGVRVEA KDLFGGCCSNPNEVMVTWIKVI VEKEVWLYLRYILKALPPRTEK MAVDQDWPSVYPVAAPFKPSA VPLPVRMGYPVK*GVPMAKEG NLELLKIPNHLTLTPAIIKHCE ALKDFCTEWPALDSDEKCEK HFPIEDSTDYVSSGPSVRNPRA RVVVLRVKLSSLNDDHAKKK LIKLVGERYCKTTDVLTIKTR CPLRRQNYDYAVYLLTVLYHE SWE/TEE WGKK*D*SRHGKSIY GENSSSERKYPGERFSR*KLLR KNMGN*LKKSS/CGTKEIEEYK KSVVSLKNEEENENSISQYKES
19029	49397	A	19138	3	233	
19030	49398	A	19139	1	256	
19031	49399	C	19140	5	114	
19032	49400	A	19141	8	444	TTDKEQ*EL*LLLDTE*GSYTK CHTDSLRY*TSSTSAEDRDDSL LRRSGSYRDL*E*IPYSCRDKD DSTDCKILYEQILAE*NDKLKAQ LHDTNMELTDLKLQLEKATQR QERFADRSLEMEKRERTALQR RISEMEERLQM
19033	49401	A	19142	1	287	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19034	49402	A	19143	211	346	
19035	49403	A	19144	175	3381	EDPAAGEGMMKADAKHKRNE QLKRWIGSETDLEPPVVKRQKT KVKFDDGAVFLAACSSGDTDE VLKLLHRGADINYANVDG/LSH ALHQAACIDDNVDMAKLLVDNG ANINQPVNDGWIPLHAAPSCGY LDIAEFLNGQGAHVGAVNSEG DTPLDIAEEEEAMEELLQNEVNR QGVDEIARKEEERIMLRDARQ WLNNSGHINDVRHAKSGGTALH VAAAGYTEVLKLLIQAG/YDV NIKDYDGTWPLHA/AAH/W
19036	49404	A	19145	1	2406	
19037	49405	A	19146	1154	1365	
19038	49406	A	19147	1	293	MGVSVLDFSHSDKCEVASRFAS GMPEPTNIVLPKLEVADTLGGC TTIPESDLERSVEQDSTELFTN HRHLTAETPR/PW*RLDGLHKQ VSPLOQVSE
19039	49407	A	19148	3	1290	VSQATDVEVGTDLVPSVTVKV TLQNRVILQKAKLSVYVQPPLE LTCDDTFEFMNRNPDGIPRVQ CKFRLPLKLCPLPGQPSKTASHK ITIDTNKSPVLSLLSPFGFASQSD DDQVNVMGFHLGGARITVLA SKTSQRYRIQSEQFEDLWLITNE LILRLQEYFEKQGVKDFACFSFS GSIPLQEYFELIDHIFELRNGE KLEELLSERAVQFRAIQRLLA RFKDKTPAPLQHLDTLLDGTYK QVIALADAVEENQGNLFQSFT LKSAATHLVILLIALWQKLSADQ VAILEAAFLPLQEDTQELGWEE TVDAASHLLKTCLSKSSKEQA LNLNSQLNIPKDTSQLKKHITLL CDRLSKGGRLCLSTDAAAPQT MVMPGGCTTIPESDL*ERSVEQ DSTELFTNHRHLTVETPRPEVSP
19040	49408	A	19149	48	642	WNSALREPLNGADMAKSKN HTTNQSRKWPRNGIKKPRSP KIRILLKGVAPPSFLARNMRFQ ESPNKKGP*RLQANKLPRA ATLPRAIKALVKPQGGSPKIP KGVSSRKLDSTCLTFAQPQALG SVARCP*LPKPGRLCPPKAKAK AKAKPRPKPRPRAKDQNGPG LQPAQSVPAQAPKRTQAP/TKA SE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
19041	49409	A	19150	1953	2447	WTPQYMDTEYKNGPWMMKEK KVWLDPP/NETNEIPNANFRQQIR KLIKDGLILRHRKPVTVHSHRAQ CWKSTLARRKGRHLGIESKKID RHMVHSLYLKLGKGNVFKHKRI LTEHSHKLIKADKARKKPLADQ AEARGSKTKKARKLREHLQT KKEEIIKTL/SQEEKAKK
19042	49410	A	19151	1	693	MAVMEKLYVWVNREESYASLR VHLPCNATTTMSMLSLQKRLAS SVLRCCGKKVWLDPPKETSEIAN ANSHQWIRKLIKDLIIHKPVT HS/*ARYR/KNTLACQKGRHMG I*KATANARMPEKIMWMR/RM RILCOLLRRYCDSKIDHHMYH RRYHESKKVDRHMYHSLYLKV KGNVFNKRILMEHIIHNLKAD KACKLLADQAEATRRSKIEAR KHREHLQAKKEEIIKTLV
19043	49411	A	19152	34	280	EVIHAAIGEEKGSY/NA**PWVE EQLTRQPLIHHQPASLHVSRY/R RYHSLYLKVKGKGNVFNKRILM EHIHKLKADKARKKLLA
19044	49412	A	19153	2	625	HEAMSMRLRLQKRLASSVLRG KKKVWLDPPNETNEIANANSRQ QIRKLIKDGLIIRKPVTVHSLRL CRKNTLAR/*KGRHMGIGKRK VPANA/RMP/KEVVTWMRENE FCRRLASEDTRES/KKIDRPHVV TALYL/VEKGNVFNKRIL/ME HIHKLKADKARKKLLAD/QAE ARRSKTEATKREERLP/ARPR KREII*TL/SKEETTK
19045	49413	C	19154	154	291	
19046	49414	A	19155	3	253	
19047	49415	A	19156	2	474	FKDKQNKPTGFALGSIEGRVAI HYINPPNP*V*LCQLADFTGLFL TKEDLHEPLSFSADNFTFKCH RSNGTNTSAPQDIYAVNGIAFH PVHGTALTAVGSDGRFSFWDKD ARTKLKTSQQLDQPIACCFFNH NGNFI/AYASSYDWSKGHEFYN PQKKK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
19048	49416	A	19157	97	1728	IRGFFRGSGQSFYRRLKEASGS WDFCPRSWPSSLRLRSGSQTP TLLLPAGVFRSETPMFKMSLF GTTSRFGTSGTIMGSA TVDNH NPIEGY*K*HSFSLMDSIG/CSCL FSPPTLPGNFLIAGSW/ANDVRC WAEVQDSGQTIPKAQQMHTGP VL/DVCWE/SDGGSKVFT/ASCG WKTAKMWDLRQ*PRRLQIAQH DAPV/KTIHW/KAPNYSCVMTG SWDKTLKFWDTRSSNPMML QLP/ERCYCADVIYPMVAVATA VERGLIVLIQL/ERIQPSEFRRIESP L/KHQH/RCAIF/KDKQNKPTG F/ALESIQGRVAIHYNPPNPA/K DTFTFK/CHRSNGTNTSAPQ/DI YAVNGH/AFHPV/HGHPNCNGD LDGRFSFWD/DARTKLKNFRE QLDQPLSSAC/CFNH/NGKHILP YASISYDWVWKGH/EFYNPIQK KKFTFFPA*MQAEELKAPGNKE VVAGR TLGSAQSLFLHSGLI VRIWAPNLVGVVSPWTFMEFP PGENDVIVQQLSPRRPAGDLP VFSIPTGLVAEVFSGKPKGGLK
19049	49417	A	19158	1	1254	
19050	49418	A	19159	1	921	
19051	49419	A	19160	1	1386	
19052	49420	A	19161	49	731	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19053	49421	A	19162	61	1533	PLKAKMGKEKTHINIVVIGHV DSGKSTTTGHLIYKCGGIDKRTI EKFEKEAAEMGKDSFKFAWV LDKLKAERERGITTIDISLWKFET SKYYVTIIDAPGHRDFIKNMITG VTSQADCAVLIVAAAGVGEFEAG ISKNGQVTRHALLAYTLGVVE QLIVGVNKM DSTEPYSSQKRY EEMWLEEVSTFNKKIWLQPPPTQ *HFVPISWFGIDNMLEPSA/N MPWFKGWKVKTRKDGNSAGTT LLEALDCILPPTRTDKPLR/LPL QGVHKLGGIGTVSSAPMETGF SNPGMVVTFAP/STVTTESKIL SKMHP*SFEVKLLPGDQCGPSM SKNVFCQGMFRRGKRLLDGQQ KMTPPNGKAAAGLHWSRVLUN HPRPK*GAGPMPLYLDC/HTGS HLHAKFAELKEKIDRR/SGKKL EDGLKFLKSGDAAIVDIVPGRP MCVESFSYPLGRFAVRDMR QTVAVGV/ISKAVDKKGCWEL GKVTKVWPRKAPEG
19054	49422	A	19163	1	514	EFGTRAKKEAPAPP*SLKPKRK AFKGPRKAVLKGVS/HSHQKEE DPARSPTFPGGPKTLRLRRQPK YPRKSRVPGETRLDHLCLSNF PLTH*VLPMKKIEDNNTLVFIV DVKANKH/QIKQAVKKLY/D/D VAKVNT/LWIRPDGEK/KAYVR L/APDLPIAFGMFANKIWGFI
19055	49423	A	19164	433	1015	GLISLNDMASRGAS*PTGPDGT NKICQFKLSTSGSPAVCKSSLV LRFVKGQVHEFQESTIGAAFLT QTVCLDDTTEKFEIWDTAGQE RYHSLAPMYRYGAQAIVVY DITNEESFARAKNWWKELQRO ASPNIIVIALSGNKADLANRAV DFQEAQSYADDNSLFMETSA NTSMNVNEIFMAIGKINISF
19056	49424	B	19165	1	2511	
19057	49425	A	19166	2	360	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19058	49426	A	19167	125	211	FRPGSPRQPRAQPISAPDCTRA MVGRRALIVLAAHSERTSFNYA MKEAAAAALKKKGWEVVE/S DLYAMNFNPIISRKIDITGKLE GPLRTFQYPGRSLFLAYKIEGHL EP/EIICGLNKKKLEAADLVIFQ FPLAVGLEVPAILKGFEPSPVH KESFA*HFTAGHVMDKGPFFG VKKAVAFPFITGGISGSMYSC QGINHGDMNVILWPVQSGVLPF LGLPKSLDPQLTYSIWPLPAR RPEFSILEGWKKRLE/NIWDET PLYFAPSSLFDLNFQAGFLMK KEVQDEEENKKF/GLSVGHHL GKSIPTDWQIQS*KRECTVHYT RDSHKVAAGAAQLTESLVPAR VAPATTS PANQRPLGHQSHGR
19059	49427	A	19168	2	331	WVDSQQKRYVPVKGDHVGIV TAKSGDIFKVDVGGSEPAISY LSFEGATKRNRPNVQVGDLYG QFVVANKDMEPEMVCIDSCGR ANGMGVIGQDGLLFKVTGLLIR
19060	49428	A	19169	145	350	QEFHLSSEPSIRLGRSLYHIHHL FASKKVLD*QWLDQSL*VCSW EHMRRSQ*GIFSRLANRGFQNG DC

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=-Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19061	49429	A	19170	1	1863	MAVAIRLSADTQWEDSPGKSIL ELHMSCTKIPERCEADKKESTS SWCTRKIRFRMDLEKECKVLLS GGGSRMRGSKQGDGVGRWSSP RVGLPSSQTLRLPPPTDFHIAPL SKARQHLLVSVSVLFCFSAPLD VQPLKVLDECQNQRACHLLVN SRVFGPDLCPGSSKYLLVSFKC QPKQMFTQQGPGPVLSIGETQV STSSVTRSSSPVGPDIHCEFHIN MCKIPDELKKNKTVCEQDELKL HCHESKFLNIYSATYGRRTQER DICSSKAERLPPFVFTRYCYFLY APVSSIANPVKGCFFHLGKKQDC LSYSALQVLSRRCYGKQRCII VNNHHFGSPCLPGVKKYLTVT YACATLSSMGPIAEVPPPEAKK VTLSLSDSSSGRMEDGRLDTG HTEVPVTSGLFIRVLNKKQNF LQIRCSFGRGPGKL RHCWAGA. AIALGTEYILVKGDQVTGIVTA KSGDIFRVDVGGSEPVSLSYLS FEGATKRNRPNVQVGDLYGQF VVANKDMEPEMVCIDSCGRAN GMGVIGQDGLLFKVTGLN*E SLLASQICE/ISIQEVGKLLPLEI VFGMNGRIWG*GQKTHPSQTLI LA/NI/LACEHMTSDQRKTDLP
19062	49430	B	19171	29	82	
19063	49431	A	19172	1	427	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19064	49432	A	19173	1	1548	MTMAAAAVVARGAGARAATA AALRGGCGTAARGRPCAGPAR PLCTAPGTAPDMKRYLWERYR EAKRSTEGTKKYTTSLNARHY YTHFTEENEDEINSSSYASQKK TFEINPRHPLJRDMLLRKKEDED DKTVLDLAVLVFETATLRSGYL LPDTKAYGDRJERMLRLSLNID PDAKVEEEPEEPEETAEDITE DTEPDEDEEMDVGTDEEETG KESDDPMAYIHFTAEGETFKS ILFVPTSAPRGLFDEYGSKKSDY IKLYVRRVFITDDFHDMMPKYL NFVKGVYIRKKLVKTLDMIK KIAADKYNDTFWKEFGTNIKLG VIEDHSNRTRLAKLSRFQSSHH PTDITSLDQYVERMKEKQDKIY FMAGSSRKEASSPFVERLLKK GYEVIVLTPEVDEYCIQALPEFD GKRFPQVNAKEGVKFDESEKTK ESREAVEKEFEPLLNWIMKDKA LKDKI*K/ALWVSSAALTESPV LLVAQPVRDWS/GQHWERIMK AQAYQTGKDISTNYYA
19065	49433	A	19174	37	266	WADRAAGGVRILTQGCVGCGG GSCDRRGLETSPARTPVRLWV LG\CCVLLTFGSV/READDEVD VDGTVEEDLG*KYEKDQVTD EVDVQEEEEATQLDGLNASQIRE LAREKSENFPPQAEVNRMIETLF IQFHCIKNKEIFLERLISNSSCAL DRLSLISLTIDENALSGNEELTV K\KCDKEKNLLHVQHTGVGM TREELVKNLGTIA\KSGTKRVF *TKRPEA/QEDGPSQPS*IDWPS LGVRF
19066	49434	A	19175	233	664	RAPEQSSGVSAAEQERVNAG WPCSVAPTCPSPRAEPARCT* GKEEGG/CEDSDRADSGSPFQE PRYPSSGPFPIQASFFPCPLLVL GIRGHSTLQYRGQEHHLVFTG RCLLDVPTLLVLVVSXKSPNAA RDQPARYPGRPL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met bod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
19067	49435	A	19176	1	672	MAEAGPKPQRTLMWAWESVL SQRKPREAGRLSEGCVKATGTP FGFWQARPDQKEHRLDGRVID PKDRHGLVKDTEPRLNFQSLCG GLNPEATEEKIREYLASLGRRR PVKKVLEKKFHTVSGS/KCGPQ VPPSWSETYRTRA*SGDQLGTP AAPNPRWPMME*EQEIEAQRSA HSGARAPWPPWPPDPGPPGNP GPKFMVSLSCWNISSLRAGLLY AGCGCSP
19068	49436	A	19177	3	684	RHASARKKYNPPSWFHRGLPPP EDQEDEMVSSELE/PITLTPSSA LKPSDRMTMSSLGERACCRDY QRLGLGTLSSSLSRKSEPFRRIS PVNRMYAICRSYPGLLIVPQSV QDNALQVRVSRQNRFPVVC WRSGRSKAVLLRSGGLHGKGV VGLFKAQNAPSPGQSQADSSSL EQEKYLQAVVSSMPRYADASG RNTLSGFSAHMGSHGKWGSV RTSGRSSGLG
19069	49437	A	19178	1	341	
19070	49438	A	19179	1	3710	MVSGARAAAAAAAAAAAAER TRGVPGHPDSTGRLP AHQQLQ RGLLFRQLGITNVL SLVCATLM EHEVLF LRSYQQLTDACRSLL ALLFPLRYSFYVPIPAQLLEA LSTPTPFJIGVNAAFQAEQELL DVIVADLDGETVTIPECVHIPPL LEPLQSQTHSVLRMVLDPELEL VDLAFPPPM/HDKELRLFHQLL QGYLWCLHVVICHPVIRFH KAAFLGQCGLVEDNFLMNVLE GMAFALFVLECCGPV
19071	49439	A	19180	1	303	
19072	49440	A	19181	14	942	TKLTGSRG*LA*NPCM/HNNCE SCVDLLFVRGAGNCPECGTPLR KSNFRVQLFEDPTV/DKEVEIRK KVLKIYNKREEDFP SLREYNDF LEEVEEIVFNLTNNVDLNTKK KMEIYQKENKDVIQKNKLKLT REQEELEEALEVERQENEQRRL FIQKEEQQLQILKRKNKQAFLD ELESSDLPVALLLAQH KDRSTQ LEMQLEKPKPKVPTFTSGIKM SVGITLCPAEHEFTFNDERSFNLS SSWSKFNKPPSTLPFKVLDEER LVELKVPTNLTKLVPFAISPCS EAIQDHPAILLAYKKT PFWRLQ
19073	49441	B	19182	49	456	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \=possible nucleotide insertion)
19074	49442	B	19183	53	333	
19075	49443	A	19184	2	208	VYPELQITNVVEANQPVTIQNW CKRGRKQCKTIPHL*FPYRCLG EPAGRGAGVDWGPGLGRKRG CSC
19076	49444	B	19185	51	300	
19077	49445	B	19186	148	3568	
19078	49446	A	19187	1	3411	
19079	49447	A	19188	2	2416	NSRGAACAGPRETAAVAARAE QGRGGSHSHSALGAPRRVAM LPGLALLLLAAWTARALEVPT DGNAGLLAEPQIAMFCGRLLNM HMNVQNGKWDSDPSGTCTCID TKEGILQYCEVYPELQITNVV EANQPVTIQNWCKRGRKQCKT HPHFVIPYRCLVGEFVSDALLV PDKCKFLHQERMDVCETHLHW HTVAKETCSEKSTNLHDYGML LPCGIDKFRGVEFVCCPLAEES DNVDSADAEEDDSVDVW\WAG ADTDYADGSEDKVVEVAEEEE VAEVEEEEEAD*LTRTDEDGDE VEEEA\EEPYQEATERTTSIATT TTTTTESVEEVVREVCSEAET GAVPSNDLPLVL*CD*REVCPI LRRMWRQPEQL*HRRVLHGRV WQR\PTTAASTPDA\VDKYLET PGDENEHAHFQKAKERLEAKH RERMSQVMREWEAE\ROAK NLPKADKKA\IQHFQ\EKVESL *QEAANE\RQQLVETHMARVE AMLNDRRLALENYITALQAV PPRPRHVFNMLKKYVRAEQKD RQHTLKHFHVVRMVDPKKAAQ IRSQVMTHLRVIYERMNQLSL LYNVPAVAEEIQDEVELLOKE QNYSDVLANMISEPRISYGND ALMPSLTETKTTVELLPVNGEF SLDDLQPWHSFGADSVPANTE NEVE\PDARPAADRLTTRPG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19080	49448	A	19189	1	2355	MKSIFTSEISSVLIFVNPEGRVVSFLGSGRREHAEEARAGPRETA AVAAARAEQGRGGSHSSALG APRRVAMLPLGLALLLAAWTV WAL\EVPTDGNAGLLAEPQIAM FCGRI.NMHHMNVQNVKWDSDP SVGTKCIDTKEGILQYCEVYP ELQITNVVEANQPVVTIQNWCKR GRKIQCKTHPHFVIPYRCLVGEF VSDALLVDPKCKFLHQERMGC FAETHLHWHTAAKETLQ*RRS TNLHDYGMLLPCGIDKLRGVEF VCCPLAESDNVDSADAEDDS DVWVGADTDYADGSEDKVV EVAEEEEVAEVEEEDDED DEDGDEVEEAAKEPYEEATERT TSIATTTTTTTESVEEVVRVPTT AASTPDADVCKYLETPGDENEH AHFQKAKERLEAKHRERMSQV MREWEAAERQAKN\LPKADKK AVFQHFPAEKVESLEQEAANER QQLVETHMARVEAMLNDPRRL ALEWNYTALQAVIPPRPRHVF NMLKKYVRARTEGLVSTSL*HF EHR\MVDPKKAQIRSQVM\T HLRVIYERMNQSLSLLYNVPA VAEEIQDEVELLQKDANYS** RLWPTMISEPRI\SYG\NDAL\MP SLTETKTTRGSSVPVNEE\FSLD\ DLEPVHFFWWLTSVPANTENE VEVPVDARPAADRGLTTR\PGSG LTNIKTEISE\VKMDAEFRHDS
19081	49449	A	19190	103	463	PLLYAMSTGKRWLSFGSMIPPV AICASNKRIPWPFMSMSSLFMAW NKEMMFVPSGSLYPVTARSAD RSFSLNSMPTRPLL*ASSTGNLKL LLTGSTIKPVAAWASSNSRAVP GRTKPIFMAS
19082	49450	A	19191	1	182	
19083	49451	A	19192	3	437	MVHAEISDEGFFLSAPIALTQAW LWLNIPKTRRTFCKKCGKHQPH KIVTQYKKGKDS\LYAQGKRRY DRKQSGYGGQN*KPIFRKKAKT TKKIVLKALSALSPTCRSKSKC WLFKR\CKHF*TGEEIRKRGQ VDPVLKCHLLFMEGH
19084	49452	C	19193	341	421	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19085	49453	A	19194	15	1066	VLA ^T VEASVIGGQKREMNMG SIVREGFMEEAGPRIGFNL ^S FFI QSTVTGSSSVGSTQLQPLSLPPA TAGQEP ^R GTG ^L PLGSHNSCPAPE PVSYGR ^L NDPPATTHPGSFTRF HSKPLTSSCWDSEMEGCVSNL MVCN ^L ASFLNVSTN ^P CAFFPW YFY ^L LLLL*AGWSPLHIAASAG RDEIVKALLGKGGVLNVY ^T NT DRFLHC ^L LLSSPSFQIAV ^M LLLEG GAN ^P DAKDHYEATAMHRAAA KGNLLARNPNHYIELV ^V INWSL VVPDFR ^H LACDEERV ^E EAKLL VSQ ^G ASIYIENKEEK ^T PLQV\AK GGLGF*YSREWVGRFK ^L QGFIL YFVLLCLLSPVSYKLMYLCTRH
19086	49454	A	19195	1597	1923	
19087	49455	A	19196	551	747	
19088	49456	A	19197	1059	1296	
19089	49457	B	19198	1	1281	
19090	49458	A	19199	3	565	LPGRLLLLNFRQRRQIDRPSMN DTRNLSRTVRKFHAPTRPTSEEN KWVIDVLPAGRP ^T VP*DQKFR EK\LA\KMYQAPH ^P DVILVFGF\ RT\HF ^G GGKTTGFG\MIYDSPWI MQRKNEP\K ^H RLAR\HGLYEKK KDLKKATEKERQEP ^E LKKVQG GLAKGPLLGAGQKEEMKCLAV ELEIGSQPKELKV ^L Q
19091	49459	A	19200	2	476	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
19092	49460	A	19201	1	2448	MGRSILKECGSKERASQVDLEY SRGNTASFAMCFHDRARIMKG SQRSRKL.TGGEGREEGERVENK DFL.DLHGQIQVRL.VVK.TASLLS RVTYIAEVEGRETDAGWRNEL QVGR.LDSGPDIL.VVSISTDHTLV DTHLEAVGGHSHEFPYFKNHL ACHVESELQRDRNGHRDAGWR NMRHGITDKEMQDSQSSDNH VLGSL.RWSARAAPAL.PGL.PEE AFVEMSTEGGFGGTSRSDAQQS LKSFWLRPRFFITELTLRAWIHT EDNNCRTYVAMAITKFDQLDF LIDIVLRDEL.KPPKCQEEVLQSV TPAEPVQYYFTLAQOPTA/VQV QGGQQGQT.TASSMTTMQPGQII IAQL.QQGQTTPVT.TQVGEQQ VQIVQAQPGGQAQ*A.QSGTGW TVQGQIQTLATS.AQPIQTQEVQ QRQQ*FSQFTDGGQLYQIQVVS IPAGQ/DLAQ/PMFIQSANQPSD GQAPRSHEVIAA.APAARRERER EL.AGRGPFPCPPAAGNVRAL.KSR RCL.PGERRERARKKKPEGGA ASERGETDSHPGASGQGPDSG RVPLGMWSRRGL.GVSRAPLHL LL.GVSTSFPL.PL.TPLIPTTAVVN PLKPLKNRIKAPHRRMPL.VPGG SQNLGTVRARISTRQSHAEPST DNERVLSMTQDIHSIFLNLKNIT WICTLQSCGFLSLNLCKDIVHK AGSGEARTRWSPPRAQAGTHED
19093	49461	C	19202	124	369	
19094	49462	B	19203	739	870	
19095	49463	C	19204	787	969	
19096	49464	A	19205	101	331	
19097	49465	A	19206	137	415	
19098	49466	A	19207	86	221	
19099	49467	A	19208	1	1347	
19100	49468	A	19209	120	899	FGARGNLKKAYSTRSKMAELN THVNVKEKIYAVRSVVPNKS NEIVLV.LQQDFNV.DKAVQAF VDGSAIQVL.KEWNMTGKKKN NKRKRSKSKQHOGNK.DAKDK VERPD/ACPL.QPQPPIQNGPM NGCEKDSSSDS.ANEKPALIPRE KKISILEEPSKALRGVITGPNIEK SAKDL.QRCTVSLTRYRVMIKEE VDSSVKKITA.AFAELHNCIDKE ASL.MAEMDKGIEEAMEILTAR QQRKAELKRL.TDLAS/QMAE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *Stop codon, /possible nucleotide deletion, \possible nucleotide insertion)
19101	49469	A	19210	211	2150	ADTKPERGVSSAVFASGSEGRRLGCVLLSSSETRLLSGTLWIPRAYSTRSKMAELNTHVNVKEKJY AARSVVPNKSNEIVLVQQQFDNVDKAVQAFVDGSAIQVLKEWNMTGNKNKYKRIRSKSKQHQQNKDAKDKVERPEAGLPQPQPPQIQNGPMNGCEKDDSSSDSA NIEKPALIPREKKISILEEPSKALRGVTEGNRLQQKLSLGGNPKPIHGTTTSDGLQWSAEQPCNPSKPKAKTSPVKSNTPAAHLEIKPDELAAKRGPNIEKSS/VKDLQRL/CTVFF*LEYRVMN*RERKWDSSGERRSKLPFAE\LNCHIEQKEV\SLMGRKWD*SLKEGRPWEILDWLVRKSKKKLRLTDLGQSRMAEMQLGPKLRAEIKHFVSEAVNYDEELGKSCPGFSCDIEQLKAQIHALPGKITHPKNNYFLKELPCSSLLPLLNARSKPLGKTEVTFSRKSSSTHNKPSSEGAANPKMVSSLPSTADPSHQTM PANKQNGSSNQRRRFNPQ\YHN\NRLN\GPAKSGQSGNEAEPLGKGNSRHGTQEGQPH/NRFGFRPKNKGRCQKIQEASLGIEGPPRAPAHFLKRPRAKGSHAADTFGRA RAFSGVS/GSVRGSCNLFPTRI EVSTDAAVLSPGCDRWA
19102	49470	A	19211	93	180	
19103	49471	A	19212	3	39	
19104	49472	B	19213	1	888	
19105	49473	A	19214	863	1509	GCAGPCLVNQMFTSSILCKSHCHSLVSNQGHNAPWKAAG/PLPLKAGYQ/QSFPCDSLKYGSWD EKDLTVPQPDTRKASVLRWISQ RGKPLAVDMEEG\HCL/CLPPGN*NVLGCKTPIVHLFNSELGRKAALWREARHVG/SNAALLFFTPLRLCLGGEKHKSGLHAHPGIVP/SLELNYDIDSFAHVFVFAVELPLIITLLPYCIPLCCNNEK
19106	49474	C	19215	289	510	
19107	49475	B	19216	534	1686	
19108	49476	B	19217	1	1062	
19109	49477	B	19218	1	1878	
19110	49478	B	19219	1	747	
19111	49479	B	19220	230	786	
19112	49480	B	19221	67	6011	
19113	49481	B	19222	1	3455	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19114	49482	B	19223	1	4763	
19115	49483	B	19224	65	4534	
19116	49484	B	19225	512	4782	
19117	49485	B	19226	345	2194	
19118	49486	B	19227	267	7391	
19119	49487	A	19228	578	739	
19120	49488	A	19229	419	1410	KQRQARERHLPRIQLSAVVTE TL*RK*RNFAELKIS/RLRKFFA HKMLQKARRKLIYEKVKHCHK EYRQMYRTEIQMATMARKAG NFFVHPKPKLAFVIRISAISGVSP KWKNNKQLCPNLNVFGLGMGD LRAFGLADGTGPGGEITGMRD LRGPLSVRAPSAAGVAEIPRHLIV FEDVVNGKFLQTSRCEISGSKN KVVQTLKKNKRERQRLPTGFG RLADQRAYGEAKNNCGVGL VETLWERHLLRIGVYIATSSLA VPTLSSNYNGLAHDQSCSDTVQ RSTGAPEAWDRGYCVGRGAQG IPIFFLDRPLTSLFDEARGSSAS
19121	49489	A	19230	3	307	AGTMEGVEEKKEVPAVPETL KKKRRNFAELKIKRLKKKFAQ KMLRKARRKLIYEKAKHYHKE YRQMYRTEIRMARMARKAGN FYVPAEPKLAFFVIRIRGI
19122	49490	A	19231	3	160	GRVLL*DKTSRGTIRQQQLLFT NICCSAASA/G*YPGKQGLEWT SSRLQQTCS
19123	49491	A	19232	303	570	GLCIRHVLVPSAAGLLEFAGGP LQTLFAWVSAEAEQIIVVN SKCC/CPDRSSGSFVSEYLA GVGLTLSSASLMLGAVDWS HSA
19124	49492	A	19233	1	176	MQYVQQKPKLKFQVHCAYRK TVLQPLLIPRQT/VVWSGPPA NSNRPAAGGADC*KEN

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *~Stop codon, /~possible nucleotide deletion, ~possible nucleotide insertion)
19125	49493	A	19234	1	1977	MFAVLQAPLVIPROT/VVWSGP PANSNRPA AEGPDC*KEN*RQT GSGVDLQQTPTDLQLRLIVRR KTNEQKGHPHNPICSPSSKT KVDTTTNMGEKQSRKTENSKN QSASPPPNLKKREKNQIDAIAK NDKGDITTDPTETQTTIREYYKH LYSNKLENLEEMGKFLDTYNLP GLNQEEVESLNRPIITGSEIEVIIN SLPTKKSPPDGFTAIFYQRTK DKNHMIISIDEKAFDKIQQPFM LKTNLKLGIDGTYLKIRAIYDK PTANIILNGQKLEAFPLKAGTR QGCPLSPLLFNIVLEVLAREIRQ EKEIKGIQVGKEEVKLYLFADD MIVYLENPIISAQNLKLSNFSK VSGYKINVKQSQAFLYTSNRQT ESQIMSELPTVIASKRIKYLGIQL TRGVKNLKFENYKPLLNKIKED TNKWKNIKPSWIGRINIMKMAI VPKVIYRFNAIPKLPMTTFTEL EKTTLKCIWNQKRAHIVKSILS QKNKAGGIMLPDFKLYYKATV TKTAWYQYQNRHIDQWNRTE PSEIMPHIYSYLIFDKPDKTRNG ERIPYLIRWCWCQWNLAIACR KLKLDPFLLSYTKINSRWIKDL NVRPKTIKLEENLGITIDIGM GKDFMSKTPKAMATKAKIDK WDLIKLSFCTAKETTIRVNRQ PTEWENISAIYSSDKGLISRIY
19126	49494	A	19235	206	456	
19127	49495	A	19236	2	385	NLCCSAASAGDTQANRVWSGT PTNSSRPEVSSGAMDGEGWGL PVDPLTPGHQDALPWQRCYHP CSSSSVPPRQACASPCSSSAA WTSASTGPWHSKCGSSCGSCC CWGSPSASVGVGAGAIRSRTV
19128	49496	B	19237	1	642	
19129	49497	A	19238	128	584	
19130	49498	A	19239	4054	4578	QSGPSAAGLLEFAGGGLQTLFA WVSAEEAAEQRLVNSRCCCL VPRKFCFLRGVASHVRCQSAPY DVFCCHGITLAKCWCSALGLPSL QSCEPNALFFINYPVCGI/TAPCC KVEGTMGVGPQSPQLSYNVL GSDNNGVLLGSMIAIFLILLIH EHGMFFHLFVSSFISLSSGL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19131	49499	A	19240	1	948	MVLEKAREEVDPPSLIPPVTQ CGQLPRSQCPQPTLSRMLTLEV GISLGIIVLMISLWPDTVKEYQS REALSFKKYKNKNGLLKFAGDP LQTLFAWVSPAEEAQISALC FLWKLPRGPATRCQPLLSTYTR CLSAPAGSFVYTMRGKPIQAS VMADASPTKIEHPRITSDCCV ASKNFKPVDSLSCSMGVGSAE LDHWATWLQSPFQGSERFCLA GVPGTTGV*KETPAASSVSAQM AAQFCA*N/HRTLTV*APKGIL WVCGLRPWEKRSICAGVHHS SWHSPSWLPLARGSSSTPCTS WVRRCP TLHL
19132	49500	A	19241	171	1345	YCPKEGTLDFNFANMTAVNV ALIRDTKWLTLVEVCREFRGTC SRADADCKFAHPPRVCHVENG RVVACFDLSKSVTAVPFLFMA GLSREPETVPASMVQTFSLGVG GGAGSV*PDENCKYLHPPHLK TQLEINGRNLIQKQTAAMFMA QQMQLMLQNAQMSSLSGFPM PSIPANPPM/SFESLRYHILGMG LVPAELVNPVLPGLKPTSLQL PGSCLGPKLMAFQINWEVLP RQNGNC/SRGENDICRY/AHPTD ASMIEASDNTVTICMGYIKGRR TVGVWGIKAKSSQRLDTKGS HQGNSFVRGTDYLPICTNMSK AKGTAFLKWMQKLVYNGSSG QCSAPFFCCAWEHSEKAGRA SGAKCNRHRTNPVFLMREGA IS
19133	49501	A	19242	61	544	KFNPFVTSRPRARIRKRAFNP SHIPKGRLLSFPLSPKSLRPEG TNRADSHAPIKRMIESSRLYR GHL*GSAKLAKVVPFRTRKKY VIYIER/VQREKA\NGTTVH/VGI HPSKQVITKAKTGTRKTKIP PNRKAQSRQVGKEG/KYKER TUEKMQE
19134	49502	A	19243	652	1042	TPLSSCFLSREKATQLLFPVVA VPMVLSAMGFTAAGIASSIAA KMMSAAAANGGGVAVSGSLVA TLQS/LG*VSWRGLPTVLPTEL RQACPTLSTLCFFPGATGLSGLT KFILGSIGSAIAAVIARFY
19135	49503	A	19244	48	397	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \=possible nucleotide insertion)
19136	49504	A	19245	42	296	GCVGVRLPHPATSTASGSASP TLARAMASVSELACIYALILH DDEVTVTEDKINA/APAEKKV EAKKEESEESDDMGFLFD
19137	49505	A	19246	172	519	LGPSFLHDEVTVTEDKIQMPLI KAAGVNVPEFPWG/LCFAKAL GKRSTLGLSLAMLGGPVGPGS QPAGCLQPAAGSCPPSTCCWF QLEGEKEWEAKERKIPREF*LID MGFLFD
19138	49506	A	19247	3	175	
19139	49507	A	19248	2	390	GWDWNCVWEPHHWLCQSL/N SVTQAGVQCLNLSLQPLPLGF KQFSCLSLSSWDYRNSLKQQL LFSYAILGFALSEAMGLFCLMV AFLISLPCGAVSTSHSSPASG WPRVFLFLYLPRQPGERGWLRL
19140	49508	B	19249	139	13320	
19141	49509	A	19250	28	450	TNDFNLQNPFGSCFSPACPAVG SERLVLWGFWGNRSFPPPPQST LSVLGKRLGRNGAIAAGVFGA LFIGYCIYFDRKRLK*PQLKDAE AVQKFFLEEI*LIGEEILAKGVD HLTNPSAFFG/QPNHFPLQMDSF GPFLRFQA
19142	49510	A	19251	164	420	
19143	49511	A	19252	1	329	STHTTYWEGCRTTSAGLLRKH EPGEEAF/FYHSTSKKPGIAGLI KVNVPQFVRMMKRSIPWALNP YHQAHKATGGPLKNMVLTRQ RLSIQPLTQEEFDFVLSLEEKEP
19144	49512	B	19253	39	368	
19145	49513	A	19254	1014	1290	
19146	49514	A	19255	122	680	LARITRIVRTKVPCSVTMSRPRK RLAGTSGSDKGLSGKRTKTENS GEALAKVEDSNPQKTSATKNC LKNLSHSLWMKSEPEERLEKG VDVKFSIEDLTAQAKQTTCWD GVRNYQAS/RNFLRAMKLGEE AFFYP*QLAKKPGIAGLMKIVK EAYPDHTQF*EKNPHYDPSSKE DNPKWSMKSLILF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \=possible nucleotide insertion)
19147	49515	A	19256	2	1005	RISTSTLCPPKKLIAPPGRAGL ASMGLNEEQKEFQKVAADF ^{AA} REMAPNMAEWDQKDRKADGK GGAVTQEVQAQLLVKHGQKL VSRFQLSSFSYVDSVRTTQSKQ EHLQTDKGLSGKRTKTENSGE ALAKVEDSNPQKTSATKNCLK NLSSHWMKSEPE ^{SR} LEKGVD VKFSIEDLK ^{AA} QPQ ^Q TT ^W EWEG VRNY ^Q ARNFLRAMKLGEE ^{AF} FYH ^S SNCKEPGIAGLMKIVK ^{EA} VYPDHTQFEKKQPP ^{PL} *PPS* ^{QR} GTP ^{PK} WPHGWMV ^Q VWFGMM KRFHSP ^{LA} E ^{LKS} HHQA ^{HA} K ^{AS} GGPLKNMVLFTR ^Q RLSN ^Q PLT ^T VQEEFDV ^{LS} LEEKEPS
19148	49516	A	19257	3	727	VRLQFLTPTLRAARTMAAPPQL RALLVVVNALLRKRRYHAALA VLKGF ^R NGAVYGA ^K IRGPSRR WVM ^T FLFREWAASREKLWAIL QATYIHSW ^{NL} ARFV ^H LTRV FRCPAVPYITRARTYPAHA ^F PG AGLSFGGILVFG ^R KQ* ^{TF} NSQI ^L NMYLLSTRPCLP* ^{SR} LAVRRK GLHP* ^{NPR} WD ^P FP/VCLTAVVW GLVLWLF ^{EY} HRSTLQPSLQSSM TYLYEDSNV ^{WHD} ISDFLVY ^N K SRPSN
19149	49517	A	19258	1	849	MSGALDVLQMKEEDVLKFHA AGTHLGGTNLDFQMEQYIYKR KSDGIYIINLKRTWEKFLLAAR AVVAIENPADVSIVSSGNTGQR AVLKFAAATGATPIAGHFTPGT FTNQIAA ^F REPRLLVVTD ^P RA DHQPLTESSYVNLPTIALCNTDS PLRYVD/ICNNKGAHS/DPEEIE KEEQAAAEKAVTKEEFQGEWT APAPEFTATQPEVADLSEGVQV PSVPIQQFP ^{TD} WSTQ ^P ATENW SAAPTAQATEWKM ^Q Q ^Q STILE AE ^{SS} PHQTPNL ^P APWSKTSQPPE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, \ =possible nucleotide insertion)
19150	49518	A	19259	1	1309	GNLAAGKTIQAQDRDAVGILSS RTGESMENLQKNLLPKQRRRT RETFTMSGALDVLMKEEDVL KFLAA/GTHLGGTQFLLSRGHG YFYKGKS/DGLSFIINPKRAREE\
						LLLPARQIVPHKTPSDVSVISSG NTGQVCGTVRA/VCLKFAAAAT GATPIAGRFTPGTFH*PRSKA AFIREPRLLVVT*PPGADPPALS RSASYVNLPHYLRGNTDS\QL RYVDIAIPCNKGAHSVGLMW WMLARGSFCAAMRGTTISREHPW EVMPDLIFYRYRDPREEKEEQ AA*/E/RQVTKEEFQGEWTAPAP EFTATQPEVADWSEGVQGAPL VPYSAIPTEDWSSQPAMEDWS AAPTATATEWCSRTSLRQNPSPD TELKKEGLYSARSISKTHVSKT ELPNQGTKKCSRTSHRQNPST ELKKEGLYLARSIGKTHISKTEL
19151	49519	A	19260	965	2495	AFTTRSTFSTNYRSLGSVQAPS YGARPRQAARPAASYAGAGGSG SRISVSRSTSFRGGMGSGGLAT GTPSGVMAGMGIGQNEKETM QS\LNDRLASYLGGQ*RSLEDR RTRKLGRAKFREHFGRRKGGPQ VRDW\SHYFKINEDLEGFRFFR KILVGQCPASVSARFDNAPSL LD*F*EFKY*GQSWPMCPLLE NDIPLGSAKV\DDTNYHTDLQL VETEIRGSSRRELLFQ*RRNHEE\
						EVKGLQAQIASGLTVE\VDIAP KSQDLAK\IMADIR\AQYD\ELA RKEPEKEA*TKYWSSADLREST TVGHPHKSA*GWKLAEDDASQ KLRRTVQSLEDRPWTSMRKSE RPALENSP*GEVEAPLRPLQDW SQLQTGIPACHLWSQELGTRHR AQRGQRPQPQGV*GPLLNHQG SSLEAEICHLTRPPSWKIGEDFN LGD\SLDERNSMQTIQK\TTTPP G*VGLGKVVS*DQLTPKVLKAL SQQEA\VPFVGSRRPKISFRVQ KKKKEKESF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19152	49520	A	19261	387	1125	CCRPCATPYALRSLR*PACPPP RWRPSSMPTSRPPVSPAASPTC GTCMLSPCPPAEHLLHLPAAQ QDPALLQPCHPAPPLRPRALHA AHHVGVWPAHQPLLPPVLCPC GGAGRGGG*RCWWRGPSSSSPG PTLIAGQDPGAAQ*TWQ/PTL TSVSATSPKAPLPLAAAVPGA PAEGCCPLLRLQALPAGQLPPGG RRATSAPPAVPGD/PPAQPTM PGSMSCWALAPRCPGPGRCW AWRS
19153	49521	A	19262	3	1097	RGNSRLRYSHDELQPLRLPEL FGNCRQLLEEVATDPAGFR/ IVQEKVFKGLDLE/RAEML/ SQSTLFGRECRFWKDLSPTHLIT FWGPAFQGALTMKQVNPSPKR LRSFCSGAREHFTNYLTQCH/C YHVQGSFEL/PKTMNNSAENH TANSSMAYPSLVAMIASQRQA KIQRKYKQKKEHLRLSAMKSA VESGQADDERVRGYYLLHLQR WVDISLEEIESIDQEIKILRERDS SREASTSNSSRQERPPVKPFHS HFGTWLHSQSTFGAGYSKGGWP TYGR*VSWYEQHRKLWSTYP DQGNMPRAAPEGISEKAAQQQ EDQEEKEEEDPEPNFHRARE WDDWK/DTHP/RGYGNRQNM
19154	49522	A	19263	2	262	
19155	49523	A	19264	3	1062	GRTAENPARAVSSPNFYAHRKT EVLFPCLTQPLARGPKKHLK/R VAAPKH/WMLDKLTRVFAPI/P STG/PHKLRECLSRJIF/LRNRLK YAL/TGDEVKK/CMQR/IFK/ID GQGSELDINLPLLGFMGCPSAF DKTGEEFRLDLIDTQGVRF WYIRI*PPWRKAKLQVWCQK* GKILCGPTKRESPPSLGTH*CPA PHPAYPPPPHPR*NGYPIPD*IE DLAKINLISIQSEHW*TLICMGD LEGA*P*GRNWVLIPTERGH GIFLTVGSR*KDANGQAFGHF GLFQHFVIGKGNKTHGSLPR GKGIRLHHLLEERDKRLA/AKQ SQWGEMLGLVDIVQIFWYRN
19156	49524	A	19265	62	298	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
19157	49525	A	19266	1	555	MAWQMMQLLLLALVTAAGSA QPR SARARTDLLNVCMNAKHH KTQPSPEDELYGQ/SP/WMCKG SCRKTKSWNI/HRKSKCEVGLA/ WEACSVSAGTGRGPGCGRWV GAPQGP/CPKCCSSG*PTW/VQR SQNMEEAMAVNQSWRKERILN VPLCKEDCERWVEDCRTSYTC KSNWHKGWNWTSAPSAVCDP LL
19158	49526	A	19267	216	974	MDMAWQMMQLLLLALVTAAGSA QPR SARARTDLLNVCMNAKHH KTQPSPEDELYGQCSA WKK\NACCTAS\TSQELHKDTS RLYNFNW\DHCG*KWNPTCKR PLYPQDSC\YECLTPTLGPWIR QFNQSWRKERFLN\PLCKEDC ERWVEDCRTSYTCKSNWHKG WNWTS\GINKGRPGAF*STFES YFPTPAALCEGLWSHSFKVSNY SRGSGRCIQMWFDQAQGNPNE EVAKFYAAAMNAGAPSRGIIDS
19159	49527	A	19268	345	2138	QRLTATSSWTTMAKNRRDRNS WGGFSEKTYEWSSEEEPPVKK AGPVQVLIVKDDHSEFDELTA NRILLSEAVRDKEVVAVSAG AFRKGKSLMDFMLRYMYNQE SVDVWGDYNEPLTGFSWRGG ERETTGIIQWSEIFLINKPDGKK VAVLLMDTQGTDSQSTLRDS ATVFALRHNDPASIQVYNLSQN VQEDDLQHLQLFTYEGQDW AMGKGHFLEAIFRSLDYFFVRD WSFPYEFSGADGGAKFLEKR LKVSGNQHEELQNRKHIHSCF TNISCFLLPIHGLK/VATNPNFD GK\KLEIDDEFHQKL*KYLIPWA YFRSRA*DI*RRSNGGLKINTC RGLVEYFKAYIKIYQGEELPHP KSMQLQATAEANNLAATAK DTYNKMMEEICGGDKPFLAPN DLQTKHLAT*GRNLWKLFRGV KKMGGEFSRRYLQLESEIDE LYTNISSHNDKNTFCSSYPQ PTLFCSHPLITYVIAGVTGFIGL DIIASLCNMIMGLTLITLCTWAY IRYSGEYRELGAIVGRWLQLC GTREVMQMRPWNKLYQCQAT PTDILYPSKPFPLHPKVGNLTEQ IQRRKKMVMMPKF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19160	49528	A	19269	351	509	VVPLPLPLDSWTCESWLRSHTGTGESENPDHKRI*PYTSDLPEGPGPWATD
19161	49529	A	19270	781	4324	ESVREKVLCLGIQQTIVTVC/WSGTYIFAVLLVCVVFHSGAQEKNYTIREIPEENVLIGNLLKDLNLSLIPNKSLLTTMQFKLVYKTGDVPLIRIEEDTGEIFTTGARIDREKLCAGIPRDEHCFYEVEVAILPDEIFRLVKIRFLIEDINDNAPLPFATVINISIPENSAINSKYTLPAAVDPDVGINGVQNYELIKSQNIFGLDVIETPGGDKMPQLIVQKELDREKEDTYVMKVKVEDGGFPQRSS
19162	49530	A	19271	3	644	FRSLPRRCLPRWQPSSFLGHHGPPFRPPCEAPKIVKKENPRKFIRAPSQTGYAKLSVNWRTPEAIDNRVRRRFKGGQILMPANIGYGSNKKTKHMLPSGFRKFLVHNVKEPEIAADVATNLTVPRSLTMFPPRNRKAIRKGACPIGPRSSPNPIARVAQLKEN*VRQLMCNKSYCAEIAHNVSSKNRKAIVERAAQLAIRVTNPNNARAQ
19163	49531	B	19272	27	161	
19164	49532	A	19273	80	430	RWLATHYLTVKLSLLPNLAVTCQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
19165	49533	A	19274	482	832	RWLATHYLTVKLSLLPNLAVTCQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
19166	49534	A	19275	121	201	SMYMDEN*RLLELITL*FSSMYMDHSL
19167	49535	B	19276	1	1147	
19168	49536	A	19277	305	442	AGLFKSRKVSSICIRFE*ILTSCLGVRISTGKLVARIHGSFADAE
19169	49537	A	19278	133	527	GFLERPRILIKVTLSIKQKSTSVGGQFSKFRFLTVLAWKCLSQPCF*A*TPASQHVS*SIRAISMSMKRSELLVRLWRRPSP*AGLFKSRKVSSICIRFE*ILTSCLGVRISTGKLVARTHGSFADAE
19170	49538	A	19279	531	669	AGLFKSRKVSSICIRFE*ILTSCLGVRISTGKLVARTHGSFADAE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, v=possible nucleotide insertion)
19171	49539	A	19280	80	428	RWLATPYLTVKLSLLPNLAVTC QPKREQNITSNESTDC*VIVTST KSDSLYTVGMLALSVAIRACPL YLLTGLISVSKNGLWYCELOSH YTVVLLLFMRKRSRFQSNVQR KLMTNF
19172	49540	A	19281	10	426	
19173	49541	A	19282	1	900	
19174	49542	A	19283	314	451	AGLFKSRKVSSICIRFE*ILTSL GVRISTGKLVARTHGSAFADAE
19175	49543	A	19284	1	1139	MWVGISRTPIYNKILVYSSPEVS CEKPKYVKSQTSTHTGFESHKR YIFYRLRVGKNLHVSAAGLGK SQERRKALKSQPPQPADSFPS LPTVEGLTTSGEVAAGFWLSGE ALSSC*LLSASVHLLACLGMG KCSGFWLYF
19176	49544	A	19285	1	864	
19177	49545	A	19286	306	444	AGLFKSRKVSSICIRFE*ILTSL GVRISTGKLVARTHGSAFADAE
19178	49546	A	19287	189	1089	HHTAHQ*CWL*/SDHGINPLRS WVG*G*/V/GVRGKVQYADLGA ENWKPSINLHDMSSSHSKTLGY KRLTKSNPISCQILLYKRSRGR KNQRSTRTHCHHPSPKIYSASA KEPWVLAATNLPVEIRTPKQLVN IYSKRMQIEETFRDLKSPAYGL GLRHRSRTSSSERFIMLLIALML QLTCWLAGVHAQKQGWDKHF QANTVRNRNGSLTNWPSVPP TIKEEENSEEELAAATTSKEQEP IGTDLDAVRTPELEFPKREDQ EGSPPETSLPYKVVVEAANLLI PAVGSSLSEALDLIES
19179	49547	A	19288	1	549	
19180	49548	A	19289	80	430	RWLATPYLTVKLSLLPNLAVTC QPKREQNITSNESTDC*VIVTST KSDSLYTVGMLALSVAIRACPL YLLTGLISVSKNGLWYCELOSH YTVVLLLFMRKRSRFQSNVQR KLMTNF
19181	49549	A	19290	80	430	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVAIRACP LYLLTGLIFVSKNDLWYCELOSH HYTVVLLLFMRKRSRFQSNVQ RKLMNTF
19182	49550	A	19291	773	1015	AGLFKSRKVSSICIRFE*ILTSL GVRISTGKLVARTHGSAFADASF STDLYHGTLKPASLTMSGVVLL GRMLARSARNWS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19183	49551	B	19292	1	1488	
19184	49552	A	19293	2	133	YAQTDDNRRNLINGTPLRRVK VLVFDIEYP**KVYGYNSTLA
19185	49553	B	19294	1	879	
19186	49554	A	19295	80	428	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGILFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMNTNF
19187	49555	B	19296	1	1575	
19188	49556	C	19297	1	2187	
19189	49557	A	19298	473	613	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARIHGSFADADT
19190	49558	A	19299	410	547	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARIHGSFADAE
19191	49559	A	19300	876	1005	
19192	49560	A	19301	167	263	KLIEAIWSS*FITGSSLRHNERLG ASTSSGEY
19193	49561	A	19302	258	396	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
19194	49562	C	19303	1	1641	
19195	49563	A	19304	1221	1327	ALHPRNRHLHKERLGCIPVAC* LYLFGQYDAHCTC
19196	49564	C	19305	1	1353	
19197	49565	B	19306	1	2047	
19198	49566	A	19307	80	429	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGILFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMNTNF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19199	49567	A	19308	1	2597	MAMFMLLAAALLSTFLTNDVA LYTVVPLTITLKRCEIPYNRLII FEGAGSQRWVFATDANWQPAK YSYLGTFWFSVCRIYCPNGTAG WRNDADAPAPVVLAMQYHTGV QTPWKPRLVWSCLGLYIVFLT ALEFKQELWGLVIVAAGFALL ARRVLSVDWTLVLFVFMAMFI DVHLLTQLPALQGVLGNVISNV PSTILLNYPVPSLLLVWAVNV GGFGFLTTCRHARIAAPADLKDG LAVHEKRETRSLTEKTGKMLLP KLGVGSRECGNVKEVGIRAIE EFGPYKINGDKEIMRRMDLLQ GFDAQHRMKLPAQPTSLATKS ARRVRYPLFCPSIFNGFEEFIFH RFLAEQALEFFNLLHGGSKFRG RNNLFSGGDSRRKNQRSTRHC HHPSPKIYSASAKEPWVLTNL PVEIRTPKQLVNIYSKRMQIEET FRDLKSPAYGLGLRHSRTSSE RFDIMLLIALMLQLTCWLAGV HAQKQGWDKHFQANTVRNRN CKMATLKEKLIAPVAEEEEATVP NNKITVVGVGQVGMACAISILG KSRAHEHTTAGAPYTPRQQT QCNMMSLADELALVDVLEDKL KGEMMDLQHGSLFLQTPKIVA DKDYSVTANSKIVVVTAGVRQ QEGESRLNLVQRNVNVFKFIIP QIVKYSPCDIIVVSNPRDILTY GTWKLGLPKHRVIGSGCNLDS
19200	49568	A	19309	435	777	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNSTDCA*VIVTS TKSDSLYTVGMLALSVRAIRCP CRLVDWADIPEQKQLMVLIRAS VALHGRSVTLYEKAFFAFRAM FKRSS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, v=possible nucleotide insertion)
19201	49569	A	19310	69	1270	LCLLRHDCYRGLQSLLLILCKM ATLKEKLIAPVAENDEAIVTPNN KITVVGVGVQVGMCAISIPGK VSWPDELIALVGCWFEDKLKG GNDGSFQHGEIIFQTP*NCGQ DKGLFL*PANS*RFVSW*LGS PVQPRRGIRLQSWVPEKWL VFQIPLFLKIVQVQSLICIIIGFN PQLDILTYVTWETKVGLPKHR VVGSGCNLDSARFRYLMAEK TWHFIPSSCHGWNFGGNGMDS SVIAVWNGVNVAGVSLQELIN PENGNI.TNDKLIWKEGA*IW WLKSAVEVILKLGYPQLGAI WI*VLAESYWNPMKKSYPR HPGCPTNG*RQGMVGHWRME SPSLEPSLCIPQCPRLNPAVIQ RSLKDDEVASASRKSARIPLWD NPEWTLKRPLT
19202	49570	A	19311	52	406	HVEAAGSR*CAAPAGALLRFLG TPSFEDVSIPEKPKLRFIERAPLV PKVRRPEKTLSDIRGPSTEATEF TEGNFAILALGGGYLHWGHFE MMRLTINRSMIDPKNMFAIWR VPAPQAH
19203	49571	A	19312	1	783	
19204	49572	A	19313	15	397	LLAEWTMGHTPVGGFRGAISL DAAP*EQGTMLVSWLCDLFLV LRILVGKTVSSKNIFIERVNGDG KHENIPMSSPPRSWFPSEKRFTH RRKTSSHLQNLVLGAVSLRQH WRGGVPRNLTRAPAGAAH
19205	49573	B	19314	127	181	
19206	49574	A	19315	242	1067	CAAPCGCPQIPGALLPASAGV KTLIPVPSFEDVSIPEKPKA*DL LERAPITCAQK*RRP*KFKVTR GPISH*KPTIEFYRKAFILGIGV VGYLHWGVHF*K*WRLTIQPAL WTPRTWFAIWRVPAPFKPITRK SVGASHGGEAKGAI*HYLTPV KAGRLVVMEMGRCEFARSAS VSLTQVALRSCPFASKRL*ACG TPREGCEQDQEERERQQRTPW TI*AE*PTAQHGWAYGVPEPH MTLTPQGEILGARFYMPTKCVV SVGDILYIGY
19207	49575	A	19316	1	520	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19208	49576	A	19317	104	763	SAAADGPDLRRRPPANLRARP VLAPASATASARRACSPHPQT MSESKSCPEYASFFAVMGASA AMVFSALGAAYGTAKSGTGI AAMSVMRPEQIMKSIIPVVM/A GIIAMLRPGWVAVLIANSLNDD ISLYKSLFLQLGAGLSVGLSGLA QPAFAIGFVGIDAGVRGTAMH AADIFRGA*FLILIFAIVLRVY GLIVALLILFHKVDLFRHQPT
19209	49577	A	19321	36	164	
19210	49578	A	19322	190	743	NDRGKEGSLSTVPSIRNTDSGH LAPRRKPQLKPSLNTSPFKAR KIHKGHEVASAGGNPPAIP KVPP*FNIHRRGPPWPDHVRFG SLFNTLFLNWCCLGVSLAFRL LP*KSRDGTGKMGLDVEPGAQ ALCLPPKCLNTWALILGILMT IGFILLLVFGSVDSLTLWFQIIQ GKTGGY
19211	49579	A	19323	2	257	
19212	49580	A	19324	1	1227	MGRARKSGLGQRSRPTASRSEA AVQPGVRKARGAGNWRVGLQ TGEAAPSPHRDLRDTDPDRPW ARTHRMTTTLVSATIFDLSEVL CKGNKMLNYSAPSAGGCLDR KAVGTPAGGGFRRHSVTLPS KFHQNLSSLKGEAPALSSR DSRFRDRSFSEGGERLLPTQKQ PGGGQVNSSRYKTELCPFEE NGACKYGDQCFAGHIELARR LTLTKD*TELCRTFHTIGFCPY GPRCHFIIHNAEERLAGARDL SADRPLQHSFSFAGFPAAAAAT AAATGLLDSPSTITPPILSADD LLGSPTLPDGTNNPFAFSSQELA SLFAPSMGLPGGGSPTTLFRP MSESPHMFDSPPSPQDLSLQ GYLSSSSSSHSGSDSPTLDSRR LPISRLSISDD
19213	49581	A	19325	204	456	
19214	49582	A	19326	1	323	IVEYHGPVDSISCTGMATICN MGAIEGATTSPVFNHRMKKY LSKTGREDIANLADEFKVDHLVP DPGCHYDQIEINLSEMV**PDM LPAPRLAHGVTVVVVGGLK
19215	49583	A	19327	2	131	
19216	49584	C	19328	2	283	
19217	49585	A	19329	1	206	
19218	49586	B	19330	217	435	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
19219	49587	A	19331	1	565	PWE*SPKGIIVSGPLSGWS/SPKD/VILKVQ/GILRFKGGTVQIVESTGLG*TPFSCTGMRQFCNMGAEIGATTSVFPYNHRMKKYLSTGTGREDIANLADEFKDHLPDPGCHYDQLIEINLSKPHINGPFTPDLAHPVAEVGKVAEKEGWPLDIRVDALACQSLAFGAADVQCGCEEHGAWSQMAWA
19220	49588	A	19332	117	2603	GQHCLLPWGVFPFLKKALGVLRQ*(HVASVLCQAR/VAMSHFEPNEYIHVLLLEKNINIVRKLNRPL/TLSEKIVYGHLDPAEQIE RGKSYLRLRP/DRVAMQDATAQ/MAMLQFISSGLSKVAVPSTIHCDHLK/EPQVGGKDL/RRAKDINQEVYNFLATAGAKYGVGFWKPGSGIIHQIILENYCVPWLSF*LGPDFHTFNGGGGLGG/ICIGSGWPNVAEWNGLGIPWE/LKCPAQVIGVKLTGSLGWSSPKDVILKVA GILTVKGGTGAIVEYHGPVDSISCTGMATICNMGAIEGATTSVFPYNHRMKKYLSTGTGRE/DIANLA/DEFKVHLV/ADPG/CHYEPTELK/INSEL/KPHIQWGPFTPDRGSPCWQEVGKVGREGKGWPL/DIRGGS*L/VACTNFKLWKIWRSA/VAKQALAHGLKCKSQFTITPGFPRQIRATFERDGYAQILRDLGGIVLANACGPCIGQWD/RKDI/KMGEKNT/VTSYNRNFTGRNDPNPETHAFVTSPEIVTALAIAITLKNP/ETD*PDGARMGKKFQAWRFPD/AD*VFPKG EF*PRGRDITYQHPPK/DSSG/QH VGT*APRSQRLQLLDPFDKWDGKDLEDLQILIKVKGKCTTDHISAA GPWLK/FRGHLDNIPN/NHLLIGAINIENGKANSVGNVAVTQEF GPAP*QLARIYYQETLASRLGW
19221	49589	B	19333	1	1311	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
19222	49590	A	19334	2	1390	PRVPRVPRVPRPTKMSALGSLSL PSVLWGQLFAVDSGNDVTDIA DD/GCPKPPEIAHGYV/EHSVRY QCKNYYKLRTEGDGVYTL/NTI EKQWIKLRLFGD/KLP*IVEADD GCPKPPEIAHGYV/EHSVRYQCK NYYKLRTEGDGVYTLNNEKQ WINKAVGDKLPECEAVCGVKPK NPANPVQRDPGVGHLDQCORS FFPWARKLDGFPFH*SSTHQGP RWIQLNQWLA*PRLKNLLSLN HSENCQQRKDICYF*HFMWG KKQLVGD*GRLFLQ*LTPRVD IGL/KLQTEGCSC*LRRVMPICL PSKGLWQK*GRVGLCFLAGGR NAQF*NLLTHLKVCPCCPVA*P KTQCHKAIYERPSNKSPRKRKN TRKKPL*GVQAPILK*NTFFLC AMS*RYPKERHPAYG/QNAGAS ALCPFHRPLEEDTPGMPTGIU/S FDKS/CAVA/EYGVYV/KVTSIQ/ DWVQKTIA
19223	49591	A	19335	65	665	GVRGFWAGTMASRAGPRAAG TDGSDFQHRERVAMHYQMSVT LKYEIKLIYVHLVIWAAAWLL R*AVGHPEALV/DMIRWPCPIQ WE/YPVFC*AFLPSLLGPSFPFPR NNIRLTWVL/YHESSMGIFFSIG SIHFIGQHGDVPWLHSSFYRHG KAYRFLFGFSVVSIMYLVVLVA VQVHAWSLYYSKLLDSWVH QHTGEEA
19224	49592	A	19336	65	665	GVRGFWAGTMASRAGPRAAG TDGSDFQHRERVAMHYQMSVT LKYEIKLIYVHLVIWAAAWLL R*AVGHPEALV/DMIRWPCPIQ WE/YPVFC*AFLPSLLGPSFPFPR NNIRLTWVL/YHESSMGIFFSIG SIHFIGQHGDVPWLHSSFYRHG KAYRFLFGFSVVSIMYLVVLVA VQVHAWSLYYSKLLDSWVH QHTGEEA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19225	49593	A	19337	71	1265	RCSKSLRMSTFFSDTAWICLAV PTVLCRTVFCTYKKSSGQLWS WMVCLAGLCAVCLLILSPFWG LILFSESCFLMHTYLSGQELLPV DQKAVLPTGGDCGLDHALSKY LDELGFTVFAGVLNENGPAAEE LRRTCSPLSVLQMDITKPVQIK DAYSKVAAMLHDRGLWAAIN NAGVLGFPITDGEILLMTDYQR CMVVNFFGTVEVTKTFLPLLR* SKGRLVNVTSMGGGAPMERLA SYGSSKAAVTMFSSVMRLLSK WGKVASIQP/GEGFLTNIAGTS DKWIEKL/EKDILGPPPLRVQE DYGQDYILAQRNELLINSLAS KDFSPVLR/DIQQAILAKSPFAY YTPGKGAYLWICLAHYLPIGIY DYFAKRHFQGDKPMPRALRMP NYKKKAT
19226	49594	A	19338	1	861	
19227	49595	A	19339	248	930	DVHQLGNMAVIHSHLWEGLQE KFLKGEPKVLGVVQILTALMSL SMGITMMCMASNTYGYK*PLFP CISGYTIWGSVMFIISGSLIAAG I*NTKGLVRGSLGMNITSSVLA ASGILINTFSLAFYYSITPYCNY YGOQPPN*LSMGTMSHLKGWV MGMVLLLSVLEFCIAVSLSAFG M*SALLVPPGGGCVNSAITFFT WAETASSTILNEGLRGTRQRFNR QMLPEIYA
19228	49596	A	19340	167	1164	RNRLPSSALAGVAPSHREPRV RTISQTDRRKDA/PDPARRDRVE LAPAYTSPPRCSANVGISTRRL RALCPARVRAPRLRPPASSPLG SEEQRRKVPAARMRPRAGAG RSTLPWLPAT/WPGLPSLPLYL* ICGGNNSY*R*RKGEQFE*RNSS *DYRYLPSSPASPNVREERQFNE NGPDDKEKDRPERPSPLDTSPL LDPPAVSDIAGKMSDEFSLADA LPEHSPAKTSASYPDHMLVPTD PAAAGPLGPWGSMSGWPVPG MGGQYPTPNMPYPSGPYPVPP PPQASGAAPPVPGWTVPLGAW GPPAPYPAPTSGYPTGLYPTPS NPF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met lod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
19229	49597	A	19341	2	716	SDPSLLDPTAVSDIAGKMSDE FSLADALPEHSPAKTSAVSNTK PGQPQQGWPGSNPWNNPSAPSS VPSGLPPSATPSTVPFGPAPTGM YPSVPPTGPPGPPAPFPSPGSPC PPPGGPPYPAPTVPGPAGTGPYPT PNMPPELPRPYGAPTDPAAG PLGPWGSMSGGWAPGMGGQ YPTPNMPYPSGPYPAPPPQAP GAST/ILFHGAPPPGAWGPPAP YPAPTGSYPPTGTL*FPGAW GPPAPYAPTGSYPPTGTL
19230	49598	B	19342	54	178	
19231	49599	A	19343	3	249	RHKGSPSPHQTEPSWLHPVDP ALGPQVELPASLVLCAQTPOPL GGR*DWV/PGTPAGPQESRAAP VPASAPPSTPRGRGGRI
19232	49600	A	19344	2	504	WAPVRPEPPRRAPPAQRPVP STTQGLRSAGA/PAGLAGSYP CSPGYVNAIDSLYLATFMGIR VKRPPNR/PLCEQ*SFYHLGAGE *PGKSRVPIQFQSP/GDPTVRV VPRR*SVPTSCATPRSWCCSD TPGHPLGSPEQLPQPGAAELP GGVVRSTPPCPAL
19233	49601	A	19345	3	335	
19234	49602	A	19346	2	447	CACTPQPLGGRWDWAPWSRG RRSSGRLRLHRNRRRGKAQA WRAAVPRPAPREGS*GGRPAA PSAGPPSRPPGTAPGQAPRAA PVPAVRLPHLPAS*GSLRPS AQKGAPTVQ/PVG*RAPQVPPK WEPQRRRRERARAVRTA
19235	49603	A	19347	108	729	QHAGSPQSPRLLSAPPLGLPL WWHLRSPASPLHCGSPFLGW RLEPTPSACREVWREHKEWEP G/PACGACGPAGVPGGRG/PWW APHSEHPASPAGPG/PMGNLAP GPVAAEGLVSPAPVPAHRRCAR FLAGP*L/PFPRGRAWDLQAPAM PEPPTVPWAPV/PAEP*RAPPP APQRPVPSPPKGAQDWAAPP AAPVRDPLGEASWAPE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, V=possible nucleotide insertion)
19236	49604	A	19348	1	816	MWESLTLSRDFLNGFDQNADS GIDNKVQVEVASDEDEELVGN WNKERENPFSGEKLKPAEICIS YKEPNANHQDNGENVARACQ RPLQHPLPSQAQRPRRKQRFPG PGSGPTWDLVPCIPGAP/RLD*K GPRKPKSWYSEGQRYESPSFGIP LGSDLFPTNALLKPYKLPPSR PRDYCGRAAFPRGRVRDLQPA MPEPTTPPWAPVRPEPPR*APPP AP/PAPSPIDHPRAEECEHTAQD WQAAPPAAPVRDPLGEASWAP ESGGDVESLYV
19237	49605	B	19349	4	669	
19238	49606	B	19350	1	930	
19239	49607	A	19351	170	444	
19240	49608	B	19352	1	1122	
19241	49609	A	19353	1628	3591	KGLRLKLCFSVQLRFSIRNFRLG ILTYWKKEFEIVGWPRLEPTPL ACREVVRREREREPLRAALA GQLEFRVGVGLAGPSLGAAGQ PCWPRVIRDLAPGPVAAEGVLG PPAVPAHRRACAGLTP*LP SRG AGLGTCSPPCLSLPPTPWAPVRP KPPQRAAPPAP/PAPSPIDHPRAE ECERRAHDWQTAPPAALVPDP LGEASWAPESGISDEYITPMFSF YKSIGELKMTQEEYALLTAIVIL SPA WATERHPVFVKRERKKPSN CLEGVKAAEALAVGLPWNLG KFHTGDGTSAGLQGIAPNSVGP GQPAPEWMWGWERLLTDQDK TQGSASFCTATFQDAQQLLO ARFIHLSGLWEQQDGLWLSNW LSLKGQIGGPALTEPLRLSVNR GTWPPKLRDARRRSAGRADRR APTGRVLPGSPGAGPQITPPPY DWSLRNRRRPAATDPEAQAAA AAAAGVQGRVGAQIEPSCRPA GRSDPPAPGPEAEVCWVSRRLRE PVRSFAFWLRQSRALIGSWG R QGDVAFAFTCPNAERGTGV RGGWGCWCGRAQLGRRDPAA TRPALNPERYQSPKSMQGLERP HVRNWGIELETLRDAFRPQPSV WRTARGEAGKRKGRLECLGS QRKVLEGVLLYAVTRGSPFNLF
19242	49610	B	19354	1	412	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
19243	49611	A	19355	951	1453	FQTQEPSSLHLVDPTGLQVEL PASPVPACAIQPLGGRWDVVP WSRGWCSSGRLGPHRSPWSGW EAQAWQAAGPEPCPMGRQVRP GEKSSAVPVGQPG/SGHSVHPP QPLARVLSPLPGASRAGRLLR VWGPPSPRPPGTPAGPQARHTA PVPARASPTTPCKLR
19244	49612	A	19356	111	658	LPSRGAGLGTCSPPCLSLPPTPW APVRPEPPQGAPPA/PAPSPID HPRAEECERTARDWQAAPPAA LVRDPLGEASWAPESGGIPTPS GPGVAGSGSTHTHALTHACTH AHTRAEPRLRPPPRPLPPPLSP /PPAPLLPSKPSLSTDRISKS RQKVPFGPRDPEPRGVRA GSW NRTTH
19245	49613	B	19357	1	552	
19246	49614	A	19358	1299	1813	AHFPRAGTGAACSACWPAGVP GGRGLGGPRTRSSRPCWPRAK GDLAPGPA AEGV LGPAAVPA HRRCARFLAGP*LPYHGA GLGT CSPPCLSLPPT/SGSCAPEPPRR APPPAPRHPVPSTTQGPWETC LLSIYGNAMNDERAWSLEGFW VLKPSDSWMTLSERTISFF
19247	49615	A	19359	380	905	WIPHWGCRWSCLPVLRRALAF LSPWVVDGTGRRGVGSGAGRG GSGRTGAHGVGGRLRHGGLQV PSPAPREGS*GPARNRAQPGGP ALLGDSVHPPQPLAQVLSPP/FP GPAGLAGCSECRGPPSPRPGTP AGPQAPHAAPVPARASPTPPL VHLTNDVLRVKVKAFFFTLH
19248	49616	A	19360	1	1052	MGLAERCPLNHLTLTVSSVKCS FLLAHILSVAGACYGLRGAPH TFPGITCPGCSQENNPIKKWAE DLNRHLIQEDTQMANKHLKDA PHRYIIRQLQVKPTMRYPCHAPT GVAHIQSTNTPNAGEDVEHQEL TFIADGSPVTTTRGHMDLVQTS L SRTLGV RSTGSWSACAEFSHY CLAKRLQLLKHGNGNSNGG NAECITRHQCKPLTGILSFILAL NKVKNTRPFDRCHSEGSEKEPS FCVTCPRRPEVNPQSPYMPQPG KSSTHLSVVQLRALEVGEPQAF PPVE/PEGFAGLRHPLWL*V*GQ GSG/SSPCLSLPPTPWAPVWP EPPRRAPPPAPQRPVPRPKG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, \ =possible nucleotide insertion)
19249	49617	A	19361	417	1092	KWCSKRTAFSFLQGGVEGEA RAGTRAACGACGPAGVAGRRG LGGPPHSGQPASGPG/PVRDL APGPVAAEGVLGPPAVP/APPA LCSIS/PPGCSCLPAG/PRLRTCSP PCLSLPPPPWAPVRPKPPR*ATP PAPRRPVPST/NPRAEECGRTAR DWQAAPPAAPVRDPLGEASWA PESGGDVENLYVQLRDCKYTN QHPVSSSGFVNAPISTLYLVNL VGTWIRIFMSS
19250	49618	B	19362	817	1596	
19251	49619	A	19363	350	644	
19252	49620	A	19364	60	1362	SRVEPRVRSASQDSRSRDNGPD GMEPEGVIESNWNEIADS\FDD MNLSESILRGIIAYGFEKPSAI QQRAILPCIKGYDVIAVQPSGT\ GKTATFAISILQ/QIELDLK\ATQ GLGS*APT/RENLAQQ/QKVVM ALGDYMGVASICHACIRGAPTC VAEVQKL/QMEAPHIIVGYPLG RVFDMLYRRLYSKPYIKMFV LDEA\DEM\LSRGFGQIYGHQ KAQAAPPRVLLSATMPFD/VL EVTKKFMRGPH/IRILVRKEELT L\EGIRQ\FYINVEREEWRLDTL CDLYETPDPSQASHLPSTTRR\ KVDWPHPRRMHALRFPWESAQ HEDMAQKERR/DVIMKEFRLAS SRVLITTDLLA/RGIDV/QQVSL SHQLNY/SFPTTRENY\IHR\IGR GGRFG/RKGVPINMLTE/EKTKR NLEDIETFYNTS\EEMPLNVA
19253	49621	A	19365	911	1278	NCGIVISKHLVFTLA*MMCHFL ASLQRKGILKRSASV*AHSH/DP SFHMKIYNAGWGHRT*HPAGG FAGPPPWGSVWGLAARTRENA PRPALPLPRPAPSGLAHGADGD SNTKIQSRDNRKG
19254	49622	A	19366	26	743	ETSADMAPSVPAAE/PEYPKGIR AVLLGPPGAGKGTQAPRLAEN FCVCHLATGDMRLAMVASGSE LGKKLKATMDAGKLVSDMV VELIEKNLETPLCNGFLLDGFP RTVRHAEMLDDLMEKRKEKL\ DSVDLNFSDLLIRITGRLIH PKSGRSYHEEFNPPKEPMKDDI TGEPLIRSDNEKALKIRLQA YHTQTPLIEYYRKRGIHSAIDA SQTPDVVFASILAFAFSKATS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 9,540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /=possible nucleotide deletion, /=possible nucleotide insertion)
19255	49623	A	19367	40	1002	VASGTRTELQDRFRDTS GDM FPSVPP*EPEYTKGIRTVLLWPP GAGKGTQ/SGTEV*MACSLGY IASNLQSLHLNDSKAPALSAAIY CPRHPNWAENFCVCHLATGDM WRAMVASG/SSELGKKLEGNL WDGWGNWVE*WKWVSWSSF GEGILENPLVAKNGFLLADGFPS GPVKARQK/SPMDLMGEGGKE KLDFC*FEFSIP/DSL/IRRNHKE GLIPPPKKWAGSYPRREFQPLP KEPP*KNNTGGNPLIRRSR**M KRPLKIRPASPTHQTITPLIEY YRKRGIHSTIDASQTPDVVFASI LAAFSKATCKDLVMEI
19256	49624	A	19368	793	1152	SGRRRRGCGGQSVKQAPALT PGPAPVFIPEAPAACAPHHPGQ GNRKCNFPVCP/TPKTASSCP/ EPLPPPSLQR*PCPCHPWHHLE FSFLDEVTFNFNKTFRKLVSSK MLPLKVGH
19257	49625	A	19369	1	873	
19258	49626	B	19371	1	322	
19259	49627	B	19372	64	2250	
19260	49628	A	19373	20	368	CEARGSGHGGRAERAGVCGG PAELLPKGSKEEQRDYVFYLAV GNYRLKEYEKALKYVRGLLQT EPQNNQAKELERLIDKAMKKD GLVGM/AVGGM/ALGVAGLA GLIGLAVSKSKS
19261	49629	A	19374	3	492	
19262	49630	A	19375	62	570	GSRGQWPSEAVLNELVSVEDL LKFEKKFQSEKAAGSVSKSTQF EYAWCL/VRSKYNDD/IRKGIVL L/EELL/PKGSKEE/QRGFTSFYL ARGGGTTRLQGITEKALKLRS A GLLAAQEPQEQPRPKETGNGLI DKA/L*KKDGLRGAWPIVGGM ALGVLAGTRCSSDFAVFQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19263	49631	A	19376	1	944	MACHLQAGSPGNI.VVVFQSKP EGLRTREPMSVPVQVKGST RKLMMSEDLTLGNWHELRS RTAKNGILQVDKQKIVEGMAE LQQVVGKNMDSGVGPVVHGG GLTRTGYLLNPESLQQAFFER QIQGCDEKLACVGGKQLGTWP LSESPSLTRLRYCRRQLTQGSIR MSLNNAGVPGQTAPDQRSGEG VAAPAGPGEEVGREEGEGAAA GKRQCPCQQGSLCVDTSRPLP KSQAQIPSSSRSSPSSSEQRGQ LPSVREHVEGGQGEERAPHCD GGGRVLLASGLAWLGTENIMD LASSPKDDWGVAVPSRGGERPS TFTLVLPSPIVRRRACSGQSPSP GGGQETHGADTSHLTNP*ICLL SKAFCCRDGSLSK*PVLVRPPPC \PQALPQSPSCYLLLAVALPFPP LSSAYPPVRFHSLLEIHEARAS
19264	49632	A	19377	1177	1603	WVSSFSSSFSSFPFPPPPPPPP PPSFLPPPPPP/PI*DRARRCQ TSIPLNKLNNKLLLLLSRPD DREKFTPOQSARQREPIKGT SRRGEGPICPTLSLYFLHVFLCF SCLSSQIHIIYILRLSTVLVIKNS
19265	49633	A	19378	1	896	FPFSLPPPKMPKGGKAKGKKV APAPAFVRKQDAQE*WLNPLF KKRP*DFR\IGQ\DIQPQKRPPPL L*KWPR\YIRLQ\QRAILYK\RL K\VPsAITPVSPRALDPANQLLS LLK\AHKYRPRDKAQRSKQ\LLA \RAEKAA\GKGRPNQRD PPVLARS*HPSPTLVEEQEKL WVVIA\HDVD\SELGLSFLA\AL CRKNGGSPYCIJGKGQDLGR\LV HVKDLAPLVAFTQ\VN\SED KRRFWLKLVGSYQGPNYNDRY RYDEIRRHGGNVLPKSVARI AKLEKAKAKELATKL
19266	49634	A	19379	3	491	AKAALDWEEGHQ*QDRL*SRN SQLGICGGLRGFRGDRASVFS R*AEKESVRQL*ARVPGALGVA ARANKHQRRWREGDSTQTATN TVDRRATRGRPMEWRAIRVAD EEDGDRRRGDNRPQARTFRPRT SVRRAAGTNNSEGRPTNAGT NGGRGVDIYTVN

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19267	49635	A	19380	1	1501	MRRSTPGVLPAAVGGARVRRRA VGLSGTGAEAGRAGAMVEKEE AGGGISEEEAAQYDRQIRLWGL EAQKRCHRMKEALSTAPFTDK ETHPKVSLAQVTRSSASVMVY GAFEVIGQRQSSAAKPRRSQSE SLGPEFQGLWEWLPASQHIMRS LKKQDGMGGYRVSLWEVEVG QLIFLEEKVTPEDPGAQFLIRT GSVGRNRAEASLERAQNFNP MV/DMLKVDTEDEIKKPESFFT QFDAVCLTCCSRDVIVKIDQIC HKNSIKFFTGDVFGYHYGTYFA NLGEHEFVEEKTVAKVVSQGV EDGPDTKRAKLDSEETTMVKN KVFFCPVKFVALDGWILDACDE MQMAALKRTTSDYILLQVLLK F/RVTDKGRDPSSDTYEEDSEL LLQIGNDVLDSLGISPDLLPEDF VRYCFSEMAPVCAVVGILAQ EIVKALSSAGTLP/PTTNFFFR WA*KGEWGLWECLGPQVNSG FGQPQRCLQHAHLYSLFPFFM
19268	49636	A	19381	2	411	PGTSQGVFSPHRLGGAVRSPCP PPQDSRQASAGGAESQLKQRG FPGE*GCRSPVSCA WPQNRMG* GPQHREAGAWSGE*KTIWLK QERCNRPLGLLVTAEAAPAPRP DGMAPGCGGIRCTPGRPRLLH SGPPSP
19269	49637	A	19382	165	309	
19270	49638	A	19383	1	825	LATQPEGAGRVPSIHPQGGPEA ALQDLRLTLMGSSRLHSGKESIG HNSSAGSSSQPHHPRRKTAL EKGGKQPHRMLPSPGLGSSPE PANAGSPDTWLCP/AAARVL* NPVKPRKGRSEPRSGWASQLPG GDSRLPLRPGTSQGVFSP/APAG *AGKLVGLVLSLSLKQRGFPE *GCRSPVSCA WPQNRMGCRTPSP GPSPTSPTAAGE*GSRPRRRKPG RVQGLQRDGP/TLTQEDALTA KRCPLPVTSPQTPETSTGAAA PGSQPVGAPPSR
19271	49639	A	19384	1	378	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, /-possible nucleotide insertion)
19272	49640	A	19385	381	1653	QRPRSGTFTMGRKSLYLLIVGIL IAYYIYTPLPDNVEEPWRMMWI NAHLKTIQNLAFTVELLGLHHF MDSFKVVGSPDEVPPISDENV TVTETKFNNILVRVYVPKIRKS *STKEGGLFYIPCGGWRRGSYS LIVYDLPSSWTVEIRPGSSLVSN HLRLAT*FHFPLQLGELYDAL R*FLRKKVLAKYGCEP*GESGIS GDSAGRG*LSAVTQQLADDP VDVQDPNFKIQS*HYPALSAWWM *VLPSYQGGKFKFSYFYSKSLQC RFWSEYFTTDRSLEKAMLSRQ HVPVVESSHLFKFINWSSLLP*E GLLKGHVYNNPNYGSSELAK KYPGLDVRAAPLLADDNKLRL GLPLTYVITCQYDLLRDDGLM YVTRLRNTGVSG*LNNHVEG GFHGAFLGLKISHRLNQYIE
19273	49641	A	19386	3	667	DAWADAWVPVSSEVAYLFGG CHTCGGLPVAHPMMPRGRSR TSRMAPPASRAPQMRAPRA QVGQPPAAAPPSAVGSSAAAP RQPLGLMAQMATTAAAGVAVGS AVGHITLGHATGAFSGRK*LPE PARP*HFFNQEASG/TPPAQH QQRHPLHQPCPYEIQTVFWE FCPGRTRDQAL/CEGFNEVLK Q/CRLANGFGPNEEVSTFGRD WKFSSHNLS
19274	49642	A	19387	81	1257	RHQSDQTVPRLSRPHVQSQKSS MAAAKPNLNLVVHGPGLDLR LENYPIPEPGPNEVLLRMHVS ICGSDVHYWEYLS/RFGNFIVK KPMVLGHEASGTVIEKVSSVK AP*NQGDRAVIEPGCSPEEN*W NSCKMGVRYNLSPIFFCATPPD DGNLCRFYKHNAAFICYKLPDN VTFEEGALIEPLSVGIHACRRGG VTLG/HKVLVCGSWANRGWVT LLVAKAMGAAQVVVTDLSATR LSKAKEIGADLVQLISKESPOEI ARKVEGLLGCKPEVTIECTGAE ASIQAGIYATRSGLTLVLVGL GSEMTTVPLLHAAIREVDIKG VFRY/CNTWASGGFSLMCLVPKS VNVK/PLVTHRVSSWRKVLEA FETFKKGLGLKIMLKCDPSDQN
19275	49643	A	19388	2	431	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19276	49644	A	19389	2	326	ARGSTRLMESRVQHL*CTRKEL TPEVLQEWLDELEEMMLVVH MPRFRIEDGFSLKEQLQDMGLV DLFSPEKSKLPGIVAEGRDDL YVSDAFHKAFLEVNEEGSEAAAS
19277	49645	A	19390	2	368	
19278	49646	A	19391	1	2123	MAQFSIVGMCLGLFNQSPDTGDS GVQLFVIMNQVMAANLAETHA ALCPTLSSGTSARFRGNQFSG GLPQITLSPLAQPCGRLAAMYS NVIGTVTSGKSLPSTPLVPLLL SGFAPLFLKGLQNWQTQTQEG KSPSAAPASSQPQACPTDHYRE SALGACLSLPGEDGKIQKVYLL SLLLIGFWDCVTCGSPVDICT AKPRDIPMNPNCIYRSPEKKAT EDEGSEQKIPEATNRRVWELSK ANSRFATTFYQHLADSKNDND NIFLSPLSISTAFAMTKLGACND TLQQLMEVFKFDTISEKTSQDIH FFFAKLNCRLYRKANKSSKLVS ANRLFGDKSLTFNETYQDISEL VYGAKLQPLDFKENAEQSRRAI NKWVSNKTEGRITDVIPSEAIN LTVLVLVNTIYFKVLRMALERP QGLPLALQLTPFFKWRDRSPE RANGLPKATQGLWKSFKSPEN TRKELFYKADGESCSASMMYQ EGKFRYRRVAEGTQVLELPFKG DDITMVLILPKPEKSLAKVEKE LTPEVLQEWLDELEEMMLVVH MPRFRIEDGFSILKEQLQDMGL VDLFSPEKSKLPGIVAEGRDDL YVSDAFHKAFLEVNEEGSEAA ASTAVVIAGRS LNPNRVTFKAN RPFLVFIREVPLNTIIFMGRVAN PCVNLSEALAVLVNLTLMK RTHGESLDFMERKRRPAESILL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method in USN 09/540,217	SEQ ID NO:	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, * =Stop codon, / =possible nucleotide deletion, v =possible nucleotide insertion)
19279	49647	A	19392	9	1630	PALCPTLSSGTSARFRGKNQFS GGLPQITLSPLAQPCGRLAAMY SNVIGTVTSGKRKVVYLLSLLLD SFGDCVCTCHGSPVDICTAKPRD IPMNPMTIYRSPEKKATEDEGS EQKIPEATNNRRVWELSKANF PLLLTTLFSTWADSKD*H*LTF FCSPLSIFQGFLWTKVVGACND TLQQLMEVFKADTISEKTF*SR SHFFFAKLNICRLYRKANKSSK LVSANRLFGDKSLTFNETYQID SELVYGAKLQAPGTSRENAEQ SRAAINKWVSNKTEGRIHRCS FPSGRPFNELTVLGGGFNTIYFQ GACWK/SKFSFENTRKELFYKA DGESCASASMDVTREGKFRYS AWLEGT/QVLVVCPEFKGDDIT MVLILPKP*EGAWAKVEKELT PEVLA KSGWD*FWREMMLVV HMPRFRIEDGLQV*REQPAKN MGPLSD/LFSRKSPTPPGIVA EG/RDDPPMSSDAIPIRHFLEVN EEGSEAAACKYPLL*LPGRS/LNP NRVTFQGQQAFFVWFIREVPLA NTIYLHGAELANPCV
19280	49648	A	19393	3	737	
19281	49649	A	19394	1	705	
19282	49650	A	19395	2	757	
19283	49651	A	19396	1	1764	
19284	49652	A	19397	1	710	MAWALLLLTLLTQDTGSWAQS ALTQPASVSGSPGQITISCTGT NNDVGSYNLVSYYQQHPGKA PKIMIYEVSKRPSGVSNRFSGSK SGNTASLTISGLQAEDADYYC CSYFTSSRPDI/VFSGGKT/LTVL GQPKAAPSVTLFPPSSEELQAN KATLVCLISDFYPGAVTVAWK ADSSPVKAGVETTTPSKQSNK YAASSYLSLTPEQWKSHRSYSC QVTHEGSTVEKTVAPAEC
19285	49653	A	19398	1	679	
19286	49654	A	19399	1	743	
19287	49655	A	19400	2	736	
19288	49656	A	19401	2	718	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, v=possible nucleotide insertion)
19289	49657	A	19402	1	711	MAWALLFLTLTQTGTGSAQAS ALTQPASVSGSPGQSITISCTGSS SDVGGYNYVSWYQQHPGKAP KLIHYEGSKRPSRVYDRFSGSM SANTASLTISGLQADDEADYYC CSFAGSSALRIFGSGTRVIVIGQ PKANPTVTLFPPSSEELQANKA TLVCLISDFYPGAVTVAWKAD GSPVKAGIVETTKPSKQSNKY AASSYLSLTPEQWKSHKSYSCQ VTHEGSTVEKTVAPTECS
19290	49658	A	19403	3	720	
19291	49659	B	19404	1	711	
19292	49660	A	19405	105	858	RRQDSGQSPAWPAGALLTLT HCAVPGSWAQSVLTQPPSASG TPGQRVITISCSGSSNIGINDVT WYQQVPGTAPKLLMYSDNHRP SGVPDRFSGSKSGVTSASLGPV GLQSEDEADYYCGTWGLAA*M VFMSSAGTTTLTVTSQPKAAPS VTLFPPSSEELQANKATLVCLIS DFYPGAVTVAWKADSPVKAG (WETTTSPKQSNKYAASSYLSL TPEQWKSHRSYSCQVTHEGST VEKTVAPTECS
19293	49661	B	19406	63	756	
19294	49662	A	19407	1	757	MAWTPLLLLFLSHCTGSLSQAV LTQPPSSLSASPGTSASLTCTLRS DINVGSPIYWYQKPGSPQF LLRYKSDSDNQGGVPSRFSG SKDASANAGILLISGLQAEDAE DYCYSSYVGTNNFGVLFGGIGT (KLTRP*GQPKACPPRVTL/FPHP PSEEASKPKNA/TLVCLISDFLP GKP*QLPWKAA*QPPSLAGVET PPHPPTRSNKYAASSYLSLT EQWKSHRSYSCQVTHEGSTVE KTVAPTECS
19295	49663	A	19408	1	224	YISLPAGVLSLACCTLYGISWQF DPCKYQVEYDAYKL*RLPLH TLTCSRPTDRNRFVRSPPHSVRQ QSLGRCLA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19296	49664	A	19409	235	955	ESTVQVSVFCHRVPARTSSQTA LPVLLGGLGFTVSGPLNLPEPSV IVNGNELVGPQTCLHCGMEIYN GNAQDQF*VTELGAGP*EGP VTSYIVIEPTRIGDETARWITVG NCLHKTAVLAGTALLHPGLR CTLRFPFHISAPPLGVL\SLACC NL\YGIS\WQ\FEPPACK*QVEVR TPNKL SRLPLHTLLP PRVVLV RKDDLHRRKRLAHNP IGTGPPLV YCVK\KIYELYAVMIFK
19297	49665	A	19410	1	764	MRLGIGFACPWKGLADEFDLKI EKQRNQGRLLGFKLQHLVPFTE MEKMGGDRQKHRTAPRQAER RRSGRVSFQPLQPLDVTLLPG ATREGNCPRASRGRRPSPISHCQ ETQGPGRSDCTIRGVLSIPAA RPLRKGSGFPTVCEKRPEQGQQ PALGP/AGPAAVPAPAAASRTQW GSRPCGAGARRGYWRLLGL CNLISPLDPGSPGSGRWGSAGA LSRPADSCPPWPRAGA*RRG AAAEAGNSPSRCGASRPAEEQS GAFAGPLPSSPSQ*RAPGAEV
19298	49666	A	19411	209	536	TRSSCVTLVC*LAMVSLRVAR HGVPGTMFGKRKRVEISAPSN F/EHRVHTGFDDQHEQKFTGLPR QWQSLIEE/SARRPKPLVDPACI TSIQPGAPKEVCSPRASGTRSR
19299	49667	A	19412	124	1983	
19300	49668	A	19413	424	1582	PPWAAVHGDRPHRVPGTMFGK RK/KRVEISAPSNFEHRVH/TGF DQHEQKFTGLPRQW/QSLIEES ARRPKPLVDP/ACITSIQPGAPK WGETGSWPPF/RHLP EG*HGPP PGCQREPQRVSHEQ/FRAALQL VVDPGDPRS/YLDNFIKIGEGST GIVCTPPSGKLVAVKKM/DLRK QQRRELLFNERPWQCP*HP/RR* EAQVPLPVLQALSV/LHAQGV HRDIKSDSIL/LTHD/GQVSKEVP RRKSLVGTPT/WMAPELISRLP YGPVSPGWLGCPAVDSVRCH FQLQRWREMGPSLGS HCQNGA LDKEEGQRPSHTGSLQWGS LG VERTLRVNMVECVHACNSFY L VNKLFQKQDSTQEASVTMVPDP DKDGNRASQKRKAHSQGARR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=-possible nucleotide deletion, v=-possible nucleotide insertion)
19301	49669	A	19414	488	707	TCGEGLSWTRPLPTASSLQVH* SLSAGERPYLCDYPDCGKAFVQ SGQLKTHQRLHTGEKPFVCSN GVNLVF
19302	49670	A	19415	16	454	GPAGRCPADCSEEEKGPSA/GD SGRPPSCT*PWKGLPVMAILPG EAPVPGPGWPEPDAGG/PLWR WGSPPCAAALHRP/SGTTPPGR ALSGPGLERAKQRSRVSPAPR AAPHGHPHCLPIPA GPRPAKD HPAYGPPASCHHHLAAS
19303	49671	A	19416	166	1191	TAGSLVLAARGT*GPPPRARK* GPAGRCPADCSEEEKGPSAETP GTTTPGRALSGPGLERAKQRSP RVSPAPRAAPHGHPTHCLPIPA GPRPAKDHP/PTHQKPPPRTEGS TGGHCCGPP/IFLIPNTSMLTVYP SGPVMPAGFTLSPSDTRPSLLN GQEVLRKMNGAVQYLSLCDYII PTCQCLATTVLCVSMSLTVFA VSYMVELLLLQNAQVHQLVLQ NWMLKALPPALQDPHPVPPRV PRAARTRLPVAV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
19304	49672	A	19417	1	2481	MRSGDLKFGKSAAWPSGQKEK LVFRGKIEEGLEYLHKKKPSAN SQDNGKEASKAFHGPLQQPLLS QALGPDREEWFFGQAPWPHCC VHPQDTAGCIPVVPAPAMAQR CTGTAWVTASEVAPSLDCFHIV LSQQVYRIHRPTSSLHPQYGKA TRHTTTPAVSMRAAAGAEPCKA TGADWPKTLGAQPSHPCTMDV GQGFKKDDSGAALAPMAALM GWAGIECLWLFHTEGVNCWP WDLGEKNGLLGQPRGPAAVCS LRTLLPASQQQLLLRPWLKDA QVQLGSLLRVQAIGLGGFYIV LSQFIDPSKASYPPWVKNSRHS TAAQPMRAAAGAEHCKATGA ELPKALGAQSPSCVLDVGQGF KKNDFGAVGLNNWPAGFWNV MGTCKSRLCFVLLSGKSSFRV EVLTQCLDSHTLETYQFYNNREV AFEDVLESSQTGLVVQKPQTDNR LTKRGRGEATRNLRGLVPSMP RSLLPSTAQPTAWKCCQRGSPY THQDMALIPSPPTARCLSPAKEP KQEEVGEKSLPDPTLPLTDPR LTGSTEQAHAEGLAALMSALR VSHLQGRGGVTVLVDSQLGVI AVSSTQFNKGPSYRLLADVQN RLLPKYDSQKEAELRSWIKGFT GLSIRPDFQKGLKDGIIILCTLVN KLQPGSPVKINASV*NWH*LEN LSNFLKAMVSYGM/NPVDLFEA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19305	49673	A	19418	1	1299	MHQEDLRAWYLDLGLPSHQNE TTDVSVVYERFSLTDATYPKQA KQWDFPFLRVSTAQPTAWKCO RAPSPYTHQDTALIPSPARWL SPEKEPKQGEVGEKSLLPDPTLP LTDPRLTGSTEQKKDLAAGPVG SALRRRPPAVSTQFNKGPSYR LLADVQNRLPKYDSQKEAEL RSWIKGFTGLSIRPDFQKGLKD GIILCTLVNKLQPGSVPKINASV *NWH*LENLSNFLKAMVSYGM /NPVDLFEANDLFESGNNMQVR VSLALAGAKTKGLRSGVDIR DKYSKKQNFDDTTMKASQCVI RLQITNKCASQSGMTAYGTRR HLYDPKNRILPPMDNSTISLQM GTNKYASQVGMTAPGTQRHIY DTNLGIDKCENSSMSLKMGYT QVANHSQGVFGLGRQIYEPKY QPGGPVAHGAPSAAGNCPGGE
19306	49674	A	19419	135	290	HREEESKSSVFLNPRGVQGTGV GDHRMILGRGRAVLSE*AAAG PRGGRHES
19307	49675	A	19420	92	1058	KGQYLNPNRKGKGPPEPPFPPV PPASRSDMAQNLKDLAAGRLPA GPRGMGTALKLLLAGAVAY GVRESVFVNEGHHRAFFNRI GGIVQDITLAEQFHFRIPIWF QYPH/IYDIRAKTSKKSPLQGS KDLQM/VNISPAKCWSRPAQE LS*ACTSRLGLGLTRER/CLPSI VNEVLK/AVVWAKFNCLTA*FT QRAFGYSLLDASGLTERAKGL SSLIL/DDVGSQSKLSFSPSYT AAVEAK/QVAQQAQRAQFL VEKAKQEQRKINLQGRG*GR GLPKMLGEA/LSKNP.GYIKTSQ RFEPAPETILQRRIAHIHRNP
19308	49676	A	19421	3	861	LDDSWEPVHPGGCGDFICQWSEE SGLWSTA EVWRERRRGREPLC EGARGTARVPGRGPPHSGSQ PVPPAPGS*GA*PGPAAVEGVP GPPAVPPASAALEFSRGFSCLPR CHLVVTKIGKQEDDVSIKRNK PDYWPAPPEPVAGCEGSDQEQV KPNATLEKHFLTEGTGRPSPC LSWPPSGPHAAADPAMVPETPE PDRPQLTKKFCEARVMVGTST NVLGQTLKPSRTGGTSSWVVF YLLTANRLPFVDVKRKGPPSSI KPRPHYDHRLLQDFKEQVHHF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19309	49677	A	19422	808	923	
19310	49678	A	19423	1	339	
19311	49679	A	19424	1	621	
19312	49680	A	19425	3	1836	MAAAVEAAAEPTVVAAVGP AKDEEEEEEPPLPCEA/LRWAP VLWRGPAWATAFLEEATAEEP GAAPGSPDPSPDRTLRRLRAER RRLDS/SLALSSDFAQVQFRLR QVVRGAPAEQQRLLRELEDF LKG/PPDILGYEGPDSPASDEGD GLPGDRPRLRGEDQSEQEKQER LETQREKQKELILQKKTQLDDL ETFAYQEGSYDSLQSVVLERQ RVIIDELIKKLDMLNEDISSLS TEELRQRVDAAVAQIVNPARV KEQLVEQLKTQIRDLEMFNFIQ DEVGSLPQTGGGHCECKAGGK TGNGCSRTGSSRTPPGNSRTKA EDVTKVRKTGLHLMRRALAVL QIFA VTRLVVPQARSLOPCGRG SRLTETTLPC*/ELEASVDRVK QLALTAEPHDHITSANLQDLS L*GKDELTMARVKELTVAVRD LLAHGLYASSPGMSLGMATIA* LLPAFSSVPEAMHPRELFVKYY HAKNGRAYVESPAKRLSQTF LPVTGGTVVTPKQSLTIAHVM LTEHDPFKRSADSELKALVCM ALNEHRLVCWMNLICKSGSLIE PHYQPWSYMAHTGFESALNLL SRLSSLKFSLPVDLAVRQLKNIK
19313	49681	A	19426	366	477	
19314	49682	A	19427	3	432	WNSRDAGYEFDICFTSVHLV RTLWTVLDAIDQMWPVVRT WRLNERHYGGLTGLNKAETAA KHGEAQVKIWRRSYDVPPPPM EPDHPFYSNISKDRRYADLTED QLPSCESLKDITARALPFWNIEI VPQIEGKIRVLIA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19315	49683	A	19428	1	890	MTRRRTPRGEHLSAFSSCVDK ISRCKSFGLELENSIQT LWAE EQSICLVAAGHLVSSSGMRNW CHARRHAAAYKQVLIRHGEVAW NLENRFGGWYDANLNPAGDEE AKRWEQALPDAGYEFDIC/FRK TIRTLWTVPDAIDQMWPV\NV SKDRRYADLTEDQLPSCNSLKD TLARALPFWNEEIVPQIKEGW SDHCLGALVIPKDGCLNLDG VTTVSSLTPEERALEEPLNRPTN A/P*HQEG*CWESHQKPVVFQT LGCLCEFSRGASRRKQARVVFR ERSNLCRSISGGEGF
19316	49684	A	19429	1	443	RALPFWNEEIIPIQIEGKRVLIA AHGNSSGAIVKHLEGLSEAIM VLNLPTGPIVYELDKNLKPIKP MQFLGDEETVRKAMEAVAAL VCVLESALPALFHGSEMPFGPVQ VYLSLISESCSCLTLPHGSSVH LSITVLNPFSSISV
19317	49685	A	19430	24	1039	AVLALLRGRGGLLRNLLIPV GAASPARROWPPYKLVLRHG ESAWNLENRFSGWYDADLSPA GHHEAKRGQALRDAGYEFDI CFTSVHLYAIRTLWTVLEMLA SEMWLVPVARTWRNLERHYWG S*PGLN*KQKLAAXHGLRPRLK IWRRSYD\VPPPPIMEPDHPPY SNISKDRRYADLTEDQLPSCIES LKDTIARALPFWNEEIVPQIKE GKRVLIAAHGNSLQGHCSRL EGLFVEAIGHSLNLPDLVFPLSI ELDKNFESLSSPMQFLG\DEETV RKAMEAVACPGQGRSEGRRG RILSPGCTLPCPVFPSSPSHLA HVTLDHICKTS
19318	49686	A	19431	86	431	VYVSTMSLSCPAELAVRRQR WSSQFDHPGPGLPQRPV*EML LL*PTLDLQPVVPPAVAILSWKP SALTISSQIVTPGLKTRSFTRKT FMKIWNHRQKYQKTMVMF RYPSL
19319	49687	A	19432	599	900	ATWLFISPTTTTCQLSKTLLVPL NFLEKQYLTLLFLEPTFSLFF RHTEDHLMRSGCLKVCISISPLS/ PLPPSSSHVRHLTPSLPFAMIVS FLRAPQKLSR
19320	49688	A	19433	210	341	HFRKIFTVFQLKLVYENLLSGH STQSQHPGGTVLL*DLVCPPV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19321	49689	A	19434	239	464	SPKGGPPNP SHGTFK FHTRPCEE TTKQALCEEHGCLFHLGAGGLS PKRESAKGDKGASVHV VCHI S*SPCS*LGP
19322	49690	B	19435	1	838	
19323	49691	C	19436	80	443	
19324	49692	A	19437	1	775	
19325	49693	A	19438	209	469	
19326	49694	A	19439	304	375	NVGE*SERHPCYD*TPREVCPPS P
19327	49695	A	19440	879	1188	
19328	49696	A	19441	615	917	ATWLFISPTTTTCQLSKTLLVPL NFLEKQYLTFLLFLEPTFSLFF RHTEHLMRSGCLKVCSISPLS/ PLPPSSSHVRHLTPSLPFAMIVS FLRAPQKLSR
19329	49697	A	19442	674	1554	GQMASSSVSLQGVPAADPG WVTAGASLTRA WAAGVQGDG PGTESSISASSRRVLRGMTRTL LWACVLLWVCILLGLCPAVG PVSISVGPVSYCGPVPCGPYP VGPCPA VGPVPCCGPYPVS/ VPCCGPVSCCGPVSCCGAVSCC GPVVSISVGPVSC/VLGLCPAVG VVSIS*CGP*PAVGLCPAVGPV CGPYPS/VGPVPCCGPVSCCGPV SCCWACVLLGLCPAVGPVVSIS VGPVPCCGPVSCCGPVSCCGPV SIVVGPVSCCGPVSCCGPVSCC DHSSSHLLLTFTML
19330	49698	A	19443	4688	4824	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,400,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19331	49699	A	19444	1	2274	MLKPLMGGAHRRRAAGARK WDGTAIIASTSGLEVLWVTTSR SKTVESVGLAKPGQHNDARMN LAIALTAARYGAATANYMEVV SLLKKTDPQTGKVRVSGARCK DVLTGQEFDVRAKCVINATGPF TDSVRKMDKDAACQPSAG VHIVMPGYSPESMGLDPATS DGRVIFLPWQKMTIAGTTDTP TDVTHHIPSEEDINFILNEVRN YLSCDVEVRRGDVLAWSGIR PLVTDPKSADTQSIARNHVVDIS ESGLTIAGGKWTTYRSMAEDT INAAVKTHNLKAGPSRTVGLFL QGGKDWSPPLYIRLVQDYGLE SEVAQHLLAATYGDKAFFVAKM ASVTGKRWPVIGVRLVSEFPYI EAEVKYGIKEYAC/DCCGYDFT SYSPGLS/EMSRQQRKPYPLGL N*/CGRELNWDDYKKQELET ARKFLYYEMGYKSRSEQLTDR SEISLLPSIDRYKRRCHKFDAD QRGFMTVVEVQRVLESINVMQ DENTLHEILNEVDLNKNGQVEL NEFLQLMSAIQGRVSGSRLAI LMKTAEENLDRRVPIPVDRSCG GLYFCVRNWWVGLTDFKNE AADPSGVKLQTTFTSVTARKGS VDPKNSGAQLASPSGSRGTAA GGAACQSRALRLHSSALGWSM GLGAVEHGAVLIGEARAAQEP MEGVGSGMAGCRSQVLPRG
19332	49700	B	19445	439	1542	
19333	49701	A	19446	2	418	CLSLPPTPWAPVRPEPPRR/CAT PCSTAPSIDHPRAEECERTVQD WRAAPPAAPVRDPLETGKIDQE IHKYNTPGFTGCLSRVQFNQIAP LKAALRQTNASAHVHIQGELV ESNCGASPLTSPMSSATDPWH LDHLD
19334	49702	A	19447	111	215	GTCEWLE*RGKGFIFWGEIKAS CRNLHLKLGAKC
19335	49703	A	19448	740	959	DLYPHILSWQSRNAARKRKS* RGQRPIPAIS*GRISQKQQQNVN TSTPSHCRLPYECRPLLHGAQS HRPPKG
19336	49704	B	19449	260	508	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, v=possible nucleotide insertion)
19337	49705	A	19450	11	490	RLSTSPDGAQLASRSGSHTG AAGGAACQSRMTMRSHSALGW SMGLGAPLQRH*INSSGGSWLV DKESFPVPSALNFSPLGRKSSPC SKVLYMPNPVSHSMIPSGSERS MDTNGSCWYLTCSLSAPGRRD TRIRKVFSGRLLVLTLMISPSV GHSTA
19338	49706	A	19451	42	263	SGVSPMSFNTFTSAPAFNRSWT TCLCPK*HARCRGVQKLDLALL PLQLMSAITSFLAMVSNCSLTS ALPFLA
19339	49707	A	19452	662	1564	GSRICSFQTRSGHPECPQCHWT RQNHSSIQPHKAAAYTKKTTIH PPNRSNSCSSIWCKLQKLYMCG P*GRSFNFSANLHQPQKGHSGE RPFENKNGRAILLKSHRVHTQE MPFPCSKVGKGYLVSSGLFQH QAIHNEKPCRSAMYGDMFHTQ QGHFKCIDYGEAFSPKDTGQGH QIIHTGEKPYVCTECEKTCRST NLIQHKPKGLLSLLVLSPTGN ALFSTLSQLTQLLLTFDVRSDA TFFRKSGSRHQLWLALPEDAR ARVTSVSGTRRRDHGGARGVV CLIHGCVPTDRSSPDVW
19340	49708	A	19453	1	1167	MIREQKVKEVYICAGKKKSHM HLWHNGEKNRNLGRKDRKMT HEGWLIKIPHPGRKYKASGLH WEQMKHMGGRGKVHLEFTEM YVAGRRGEVKDEVLEPMSLTE VYIPTENDREVWRERRLRAPGL CAALEGQLEFRVGVGLAGSAL EAAGQPCWPRAGRARDLQFAM PEPPPASVGSAAARSLRSAAP CSTAPSPIGHPRAEECERTAQD WQAAPPAAPVRDPLGEASWAP ESVMWPLDRSQSEEVSVSKRH MDATDKIKFPWLKEKRTIEFGE AAGYVCHRRYKDMEPHEKMG EAAKKVHVWQMRSRARDLQP AMPEPPTHSGSCAARASPT/T HHPLLHDAQSHRPPKGLRSAAGT WRGTGRQLHLQPQCQGIHWVKP AGLLSL
19341	49709	B	19454	118	559	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
19342	49710	A	19455	26	813	LSHYLACSLRLPSGSRIRSAWLI PSIMLLNYTSPGLPRHRSKSEN LDDTARRSPGMAGPCPLPGG VPDVRAAAYGAPTSARQPRVGW PPGGRWPRGARGARSFLKKPFR GTPTQVRGAWQCPLPLTVLEK *PWHPCGRFQGRRHEEKGGRE LGHSKSPPPRRSHYPAGEKGEE ERKEREESSCAGLRRGAHEHA QQQSLPGELPAPGDHPGRCVG GQGRSRMGPCS*SLAQHPVCT RGQREKQERRATNKPVRGAPK
19343	49711	A	19456	497	756	TWLKSGISFPALFTIAKTWR*P KCPMSIDWIKKMW/HIYTM YAAIEKDEFMYFAGTWMTLDT VILSKLSQEQTCKHRMFLSISGS
19344	49712	A	19457	100	819	EWSSVRRILVEKRALRRPHQC LCFRMKTILSNQTVVDSQKNV DITLKGTPQ*SCKGPRGTLLR RDNHIIKCGTSALLGKEQQRGR VDIKWWGNRKGWATRSGLF GSHVQDHDPRGVTGASGYKD EGPVYASPSPHPTVVIQGRNGSS LLKSRNFLGAEKYPQGFMRMKT RVLCSVSQSPEKMKLILE/GNDI ELVFKFQRALIQVATTVKNGG IRKFFGWVWSMLEKGTVPGLI
19345	49713	C	19458	395	574	
19346	49714	A	19459	1	1476	
19347	49715	A	19460	2	323	
19348	49716	A	19461	539	711	HRFPQDRKAGECLLHEYEDLV PIRDTLRLFPGGRYLPRAKHVA PSEPDPGWLVLG*FYC*FCHSP ALLSGFCLAVNVYRERSV
19349	49717	A	19462	66	2873	SARTISYDYQNWGRDGGPRSS GGGYGGGAGGHGNGRSGR GGGGGGGGRG/WQGPASRAPE RPRNRHVREKTGAEEQGSWR GKREL/LVHMDERREEQIVQVL DSGQAENG*RVRTTDFRFAPE DHGYGTEVSTKNTPCSENKL/G HPGKEVDKSRKKNV/SESGTDH ILTRDSEYLLQENEPDGLDQK LLEDLQKKNDLRYIEMQELV NLIDNHQVTVISGETCGCKTTQ VTQFILDNYIERGKGS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v-possible nucleotide insertion)
19350	49718	A	19463	1	2112	FRKTTTRRLRKVKGRTAGCARF RKWLLRQHLRTLGLICNHTSR MTRCRWSAESDSGDEEEEGPIV LGRRQKALGKNRSADFNPDFV FTEKEGT YDGSWALADVMSPL MKKRAATTLHEKIEKARKRRK TEDKEAKSGKLEKEKEAEGSE PKEQEDLQENDEEGSEDEASET DYSSADENILTKADTLKVKDRR EEEEERTGSRRI*RCIS/ATMKT SSFQDMNLSRPLLKAITAMGFK QPTPIQKACIPVGLLGKDICA/C AAPGTGKTPPFALPVLRLIYIP SPGSSL/TRVLVLPTRELGMQ VHSVTRQLAQFCNITTCLAVGG LDVKSQEAALRAAPDILATPG RLIDHLHNCPSFHLSSIEVLILDE ADRMLEDYFEEQMKELIRMCSE HRQTMLFSATMTDEVKDLASV SLKNPVRIFVNSNTDVAFLRQ EVIRNRPNREGDREAIVAALLT RTFTDHWMLFTQTKKQAHMRMH ILLGL/LGVQVQELHGNLSQQT RLEALRRFKDEQIDILVATDVA ARGLDIEGVKTVINFTMPNTIK HYVHRVGR TARAGRAGRSVSL VGEDERKMLKEIVKAAKAPVK ARILPQDVILKFRDKIEKME/KD VYAV/LQLEAEKEMQQSEAQI NTAKRLLEKGKEAVVQEPERS WFQTKERKKEKIAKALQEFDL ALRGKKKKKKFMKDAKKKGE
19351	49719	A	19464	354	446	RQHAH*ESSPLNLTYPGTQILR KAAGTSA
19352	49720	A	19465	42	388	
19353	49721	A	19466	177	497	
19354	49722	A	19467	271	773	TAMSSEEGKLFVGGNLNFTDE QALDEHFSSFGPISEVVVKDR ETQSRSGFGFITFTNP/HAASSC Q*RSQ*TGEVSWNG/RQIPLLDH AGKSCSGEPRGRWALGPMGVG SQLILEVVGDQGYGSGRYYDS RPGGYGYGGRSRDYNGRNQG GYDRYSGGNYRDNDYDN
19355	49723	A	19468	2	414	GRVGPPRRAGGPRASAAGDPA RGAAPKMSQTAMSETYDFLF KFLVIGNAGTGKSCLLHQFIEK K/WSVTRSYRGAAGALLVYDI TSRETNYALTNWLTDMRLAS QNIVILCGNKKDLADREVT LEASRFAQEN

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v-possible nucleotide insertion)
19356	49724	A	19469	397	445	GHRGAHRPRTLRSVVRRRAHR CSYSGIWD/TAGPDRFRSVTRSY H*GRPGALLVYDITARETYNAL TNWLTDAARMLASQNVIIICGN KKDLADAREVTFLEASRFAQE NELMFLETSALTGENVEEAFVQ CARKILNKIESERMGSGQYGD AALRQLRSPRRAQAPNAQECG
19357	49725	A	19470	2	559	
19358	49726	A	19471	1	483	
19359	49727	A	19472	95	352	RKATKMATIWASGTPKQPCPR ELLAQERRQTRTRYNQ* ^{DQ} *QE RRSRQRMGVGCLHMLRSEKA PQQRSAFCTPKSSRPSARLT
19360	49728	B	19473	247	1364	
19361	49729	A	19474	422	877	CHTQTQ*QHTP*QPTPIDMAPTS HARMPFHTHFLTQILTLVSRSP DPG/PHGGKVPTRIPIPPAQPWG PSTLPSSSFLGPPRPFPSPVPGP GGENRKPFSTPP* ^A * ^G FPGPPSG P* ^A GGE/PPVVGRTATPSPPTP SPACGLKCKWHLKLN
19362	49730	A	19475	168	522	LALHPTRLIPATDDEVTVTDED KINAPH*KQPVNVNVEP/APGLF AKALANVNIGSLICNVGAGGP CCQPAAGGCTQPGGSCPLHCWL LPA* ^G RRKWEAKKEGFRGSFD* LTWGFSGF
19363	49731	A	19476	1	328	
19364	49732	A	19477	1	1204	MASRLLLNNGAKMPILGLGTW KGSILRVGFGSSREPPYRGQP LMGGPPVRLGPSGRPKRHINAR GRRGK WASQTGGPRAQTGTWS RRQQVTEA/VKVAIDVGYRHI DCAHVYQNEVEGVAIQEKL EQVVKREE/LFIVSKLWCTYHE ERGLV/KGACQEDTSSDLK/LAD LPGPLTLIHWPTGFKPGKEFFPL DESGNVGSPDTHISDTWA/AME KLVDGLVKAGISNFNHLQVE MILNKPGLKYKPAVNQIECHP YLTOEKLQYQCSKGIVVTAYS PLGLS* ^T GPPWPKP/EDPS/LLED RIQGGSQPKHNK/TTA/QVLIJRG SPCKRNLVVP/KSVTPER/VAEN FK/VDFELS/SQGYDPP* ^L SLPT RNWR/VWCPWCST/SHKDYD LPMKEVLKA
19365	49733	C	19478	300	489	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for fast amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=-Stop codon, /=-possible nucleotide deletion, \=-possible nucleotide insertion)
19366	49734	A	19479	243	471	CDHLQVSRPRIPATVPVWEKRS EMDSKEEEKKEKKEKRRRR *RRRGKEEEEERRRRRRRRKK RGKKK*IKKRV
19367	49735	A	19480	1	365	MGLYKDLLDTRYLFYLVPGYG LTQIELEVIKDSAPVGTPTRV GLKLEMGYILSGHLDKFIFAMP FKIKDILSLKKEEEK/ERRRRRR RRKEEEDEEEEEEEEERRRR RKRRRRKKRKKKID*KKEEKE EEEGEGEKKKKMKKKRKKK KKKKGGGGGKGGERRRGRKK
19368	49736	A	19481	96	508	PAGSLVCPNQCSSARLFSSFFCS SAVMSASPAVGKRGWAELTGS FLPKPPLKTLGSGREDR*QVW WLTPVIPALWEAEVGGSEGOE FETSLGNMVKPLLYWLGSNGW LWKLGRRLWQLLWQDDWPT RGSHILVL
19369	49737	A	19482	3	1013	SRPSWGTHWNEYARRLTLAPS WPLP*GHPVPSLRVSC/LPHYY ESVLEKKGPCDRDYKKFWAGL QGLTIYFYNSNRDFQHVEKLN GAFEKLTDEIPWGSRRDPGTHF SLILRNQEIKFVETLECREMW KGFILTVVELRVPTDLTL/LPGH LYMMSEVLAKEEARRALETPS CFLKVSRLAQLLERYPECGN LLLRPSGDGARQVRVGHHAADA QRDA/PWFRHYKVEAGRGPY VIRCGTAVLLHLPWTTVVNYF VSHTKKALVPFLLEDYKVL GYVEADKENGENVVWAPSAPG PGSPPLHKVPPSRCQPASSQDKL PPLPPLRNPGREIT

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
19370	49738	A	19483	63	1496	LISAMACVLRPLVSVYSEKGESS GKNVTLPAVFKAPIRPDIVNFG SHPNLRKNNRQPVQWQGN*AG HQTSAEVSWGYWPRAVGSKFP R\VRGGGTHRS\GQGCFLTMC R\GGRNVLHPTKTLGRRWHRR SSTQPKKRIRPSGSAPGCPQLP ALGHGLKGHLY*GKFPETSFV* VER*KLKG*QEEPREAVFAPLR KLKRPGNDIQKGSMASSAK*RA GQKAKLRKPVARIPAAAGAPCI\ YNEDNGYSFKAF\RKHPWGLL MLNC*GKLEHF*KLAPLVGHV G\RFHLHGLLESALREV*DDLYG T\WR*SHFPLQGVNLPFSPWHK M\NNTDS*AESLKSPEIPREPLRA PR\KKIHSQS*RRNPLEKL*EIM LKA*TPFAKAHAAGTPFFGQAR N\HKLVRDKAAAAA\ANLQA NSDEKAAVAGKKPVVGKKGK KAAVGVKKQKKPLVGKKA TKKPAPEKKPAEKKP\TTEKKP AA
19371	49739	A	19484	3	730	KRLPKMAEVQVLVL\DRG\HL LG\RLA\IVAK\QVLLGRK\VV V\VARCEGINUSANFYRN\RLKY LGFSPPSGMNTNPSRRPLTTS APSRIFWRTVVRGMLPPQNPSG GQGRLLDRLQGV*RASPPPYGQ EKS\GMVVPAAALKVVRLKPTR KFCLIWGR\LAPEVGWKYQAV TAPPGGERGKRKAKIHYRKKK QLMRL\RKQAREETWRKKIDK YTEVLKTHGLPGLSPIKTVNSS KKKKKKRAAA
19372	49740	A	19485	1	660	PTRPRTGRRTRKSTPMKGLGA RYREYKVVGRCLPTQNATRG PLLACEIFAPN\HVVA\KVPF W*LCILS*KKMKKFFQKIVYL WGKVF*EGSPLRVERTFGDLGL RLLT\PRERAPHNIVTGEY\RG* PTAGGCSTQLLTRDNGVARHR RPEAHFHFRFMEGWEGDRGP/C KIPPGGLVKASSNDSKIKVSRV PHRVLA\AFRNKARFT\TKRPNT

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19373	49741	A	19486	51	471	EAGRLPGNILLDSIMACGLVAS NLNLKPGECLEVRGEVAPDAK/ S*VLPARCVHGILSDRLVGQWG WSWPRWPHAHPLPPSFVLNLG KDSNNLCLHFNPRFNAHGDAN TIVCNSKDGGAWGTEQREAVF PFQPGSVAEVC
19374	49742	A	19487	59	527	ETQSWPCGLVAISNLFNTLES CLRFKPSWLPDAIKSFRCLNLG QRPPTTWCLHFQPSASTAHGS ARHASLCNSQGTAGHEGGPTQ REAVFFPQPGKCCRGVAFTFRT RANLNRSSLPDGITEFQVSPNGF NLAEAINYMAADGGLSRSKCV AFD
19375	49743	A	19488	2	440	KQQCRDTGDEVVCSCFVGYQL LSDGVSCEDVNECITGSHSRAF GESCINTVGSFRCQ/RISSCATG YELTEDNSCKDTLGSFRCPKL QCKSGFIQDALGNCIDINECLSI SAPICPIGVTCINTEGSYKQCKN VPINCGPLVNHLEKE
19376	49744	A	19489	2	2061	
19377	49745	A	19490	2	2120	
19378	49746	B	19491	63	255	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, v=possible nucleotide insertion)
19379	49747	A	19492	2	1941	PPPMERAAAPSRRVPLPLLLGG LALLAAGVDADVLLEACADG HRMATHQKDCSLPYATESKEC RMVQEQQCHSQLEELHCATGIS LANEQDRCATPHGDNASLJEAT FVKRCHCCLLGRAAQAQGS CEYSLMVGYQCGQVFQACCVK SQIETGDLDDVGGQETDKIIEVE EEQIEDPYLNDRCRGGGPKQS CRDTGDEVVCSFVGYQLSD GVSCEDVNECITGSHSCLRGES VCINTVGSFRQCRNSSCGTGYE LTEDNSCKDIDECESGIHNCLP DFICQNTLGSRFCRPKLQCKSGF ITRML*GNLLLDIQWSVLSIQLP RCMIGD*HGINTEGFYNVPEGT CPNCGPLGYHLQGRGRTRCVND VDECAAPCLSPVKG/HR/CVE LFPGSFPLAECKDGVTFDGI/SR DVLFDVQRSCQRLPRGACCI/GH K/CTENTLGSYL/CSCSVGF/RLS VDGRSCEDINECSSSPCKPGSVA NVVYGSYQCY/CR/IG*PASAIV GWFTCERTFDGVAALPHRGH TFWFLTAGIQTSWGSFPVAACP SSGLTGWAPNGPATCQ/DIDEL C*LGHNCFHSTEDLVSNIPGAG FRCLGLSSCPENYRRAAT*S*G NSCMRAIGAGWEKEKGKLAGS
19380	49748	B	19493	123	237	
19381	49749	A	19494	285	456	VINKRLVCTRLRRKWSCLQPH RMM*VQAGSRGSQPKYHRHE MGWTGHTDTPPHRL
19382	49750	A	19495	383	693	NFLPAQPCLSAPPS*SRSLLDNS PLNCKAFHSSSHLLKLESCSE NSPGPLLQPGGTCLGACPGCFS FSPGISAGKPLSKAASPPVCTGS GAETSTTPPSPLR
19383	49751	B	19496	28	236	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
19384	49752	A	19497	1	927	PAAPQVAGRLGLGCPHLHLHVF AVVSAMLPRLRCVPRVLGSSV AGLRAAAPSPFRQLQAPAPRL CTRPFGLLSVRAGSERRPGLLRP RGPCACGSGGCSLHTDGDKAF VDFLSDEIKEERKIQKHKTLLK\
						MSGGWELELNGTEAKLVVRKVA GEKIPVPF\NINNSIPP\TFDGE TLARARRFEDREPELTSLPKFV VE\VIKND*WQERPLVLD\VHYP EDEVGQEDEAESDIFS\REV SFGSTGESEWKDTNYTLNPD SFWTGPLYD\HLMGFP*PNRGV DNTF\A\DELVELSTAPRSPGP VPLPFP
19385	49753	A	19498	3	342	LDTNLPANRVPAGLEKRLCAA AASILGKPADRVNVTVRPGLA MALSGSTEPCQQLSISSIGVVG TARDNRRHGAPFFGFSPRELAL GQDRILIRFFPLESWQNGKIRT GMTFL
19386	49754	A	19499	3	520	SSARAVSVPLPAMPFLELDTNL PANRSARGGWRKRLCAAAASV LGKPA\DRVNVDRYAGGFAIGA *AGSTNEPCA\QLSISSIRRWGT AED\NRSHSAHFF*VSSPRELSP GARDRIILFRFFPLESWADWAR *GTVIDFFMIWGTGEGFQGH LVNLAASFQKRSSWAEVKGLG
19387	49755	A	19500	7	355	
19388	49756	B	19501	172	479	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=-Stop codon, /=-possible nucleotide deletion, v=-possible nucleotide insertion)
19389	49757	A	19502	1	1656	LEDPDSSSRPRRAGSGHSASFPP PPLEQLWRQVKTLNPKAEVAR AQAALAVNISAARGLDVLRIT NLGPKGTMKMLVSGAGDIKLT KVDGNVLALHRNCKFQHTASLAI AKVSNKPQE*YNLV DGTDFLIV LINWESLLKQADLYISEGLHPR ITTEGFEGAKEKALQFLEEVKV SREIMDRETLIDVARTSLRTKV HAELADVLTEAVVDSILAIIKKQ DEPMDLFMI/SVIMEMKHKSETD TSLIRGLVLDHGARHPDMKKR WRDAYILTCNVSEYEKTEVN SGFFYYKSAEEREKLVKAERKFI EDRVKIIIEELKRVCGSDSKGF VVINQKGIDPFSLDALSKEGIVA LRRAKRRNMERLTLACGWG/M PLNSFDDLSDDCLGHAGLVYE YTLGEVEKFTFIEKCN\NPRSVTL LIKGPNKHTSLRIQRWQ*GDG L*GA VIKNAIDDCVVPVGA VGSGQWAGSPGFKHKFSC*RA RAQLGSPKHLDDAFAHYFPKVL CFRNSGFLTQGNILKFKAEH SESGQLVGVD*TPGEPNWWP ARSKAVWG
19390	49758	A	19503	2	424	EGPVMAPPNPGPATLGGPGDPD DLGRLPLHEVFLHVRPARPRG APLHRRGLRGRHAVRAVRQRR REPEDGAAGAVDRAGGAGVLG RGDRESEGLTD*PREPADRAP LLQPERGRFSHPLPTLTCAPSPII FPVAERWG
19391	49759	A	19504	3	174	
19392	49760	A	19505	2	153	LPLHEVFLHVRPARPRGAPLH RRGLRGRHAVH*PSEPGDPARL LQPERG
19393	49761	A	19506	3	354	EDGRHGAPNPPATLGGPGDPD DLGGLPLHEVFLHVRPARPRG APLHRRGLRGRHAVRAVRQRR REPKNGAAGAVDRAGGAGVL GPGDTEYEGPLTD*PSEPGDPA RLQPERGR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19394	49762	A	19507	3	1246	GSTHASARMAVMA P R T L P PAT LGGPGDPDLGG L PLHEG F LI RV P AR P RGAPLHRRGLRGRHA VRAV R QRRREPEDGAAGARG* EARKGPE* L GRG N TESEGPT H R LDPSEPGDPARLLQ P E*GRFFTP FQIMYGC D VGS D GAFSSAGYP QERLTNGKD Y IALN E DLRSWT AADMAAQIT K R K WETPPMR R R SLRAYLDGTC V E W LRRYLENG KETLQ R TD P P K THMTHHPIS* P *RPL* R C W A L A F YPCGDHT* P WQ R DG E DQTQGHGSLL E TRPA GAG I TFQK W AS M VPVSGQE R YT C HVQQ* R VLPK L TLKM/ W EPSSQAHPSPIRGAS F AGPW F SL GSL*ITGA V GR C W* C *RKEQLR WRRGER* K KEGAYSQ G CKASD QCPGASDVSLHSFVKVLRQLAL
19395	49763	A	19508	1	392	
19396	49764	A	19509	1	220	
19397	49765	A	19510	3	500	
19398	49766	B	19511	28	134	
19399	49767	A	19512	1	1662	MAASVVCRAATAGAQVLLRA RRSPALLRTPALRSTATFAQAL QFVPETQVSLD N GLRVASEQ SSQPTCTVGVWIDVGS R FET E K NNGAGYFLEHLAFKGT K NRN GSALEERRWRAWGAHLNAYST REHTAYYIKALAKELPKA V EL LGDIVQNC S LEDFTD*GRNVDV ILREM Q EN D AS M RDVVCN Y L HATAFQ G ITPLAQALEG P SENV RKLSRADL T E V LSTH*QG P SKW CWAAAGREWEHQQL F R T FAQE GTSVGIPW T YAEDAV P TLTPCR FTGSE I RHRDDALPFAHVAIAV EGPGWASPD N VALQVANAING HYDCTYGGGVHLS S PLASGA VANKLCQSFQ T FSICYAETGLL GAHFVCD R MKIDDMMFV L Q QWMRLCTSATESD V DRGKNIL RNALVSHLDG T TPVCEDIG R SL LTYGRRIP L A E WES R IAEV D AS VVREICSKYIYDQCPAVAGYGR SLGLPFHLC S R T AAQLTEQ P VK APSSPQSPGCQGVLAQK T CPSS SLTACQGA F INTLHPSG P IEQLP DYNRJRSGMFWLRF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19400	49768	A	19513	2	1693	AQSTLARRNRADCSWKMAASV VCRAATAGAQVLLRARRISPAL LRTPALRSTATTAAQALQFVVPET QVSLLDNGLRVA\SEQSSQPTC TVG\WVIDVGSRFETEKND/SGA GYFLEHLAFKGTKNPALAVPW EKEVESMG AHL\NA\YSTREHT A\YYKALKSKDL\PKAVGALGDI VQNCSEDSQIEKERDVILREM QENDASMRDVVFNYLHATAFQ G\TPLAQAVEGSENVKRLSTA DFTRYL\STHYKAPESVLPQTEG VRTEQLLDL\ARNHRVHIP*TY AEGAL\PTITPCRTGTSEIRHP*D ALPFAH\VA\AVEGPG\WPAPD N\VALQVGN\IGHYDCTFGG\ GVHLS\SP\SGAGCPTKLCQS FQTL\SCYAEDGLCWVHTLFC DRMKIDDMMFVLA/QGHWMR L\CTSA\TRSEV\ARGQKNIPQK MPLGISS*DGNYSLCVEDITPAA LLTLWARRNPPGLKWES\RIAG GGFQVVVR*DLAPRYIYGPSCP AVA\GYWPH*SMLPDYNRIP*P ACFWVAFFRAGKPMVKQKGR GGGLWSPPPQTQHFRLLLTCC
19401	49769	A	19514	46	422	
19402	49770	A	19515	568	1567	GPWAANGVVLAFPPCLGSPAP HLAPQKAVPPKWGISSLCSEHF HIYQVGGVAFCGRIRFLSSTDF KRRAGSGSLMSQEEKHELSG KIRSQIMDDHARPLYTMSNCP CWAGALGPQESKCSRGRLLHR AFPSLV\TLLLAGQATTGLLSCY QQQGAGWDKLDShRPRNLAA WEEPCGMEAFPPKPSQSLVEAKI AQLATPGLLDCKAACPWGAPC PRGP\MQNATKVIGNM\TEDHV DAPGSRNAEPP*KVYPP/LKGSF P/EKNLRHLKNTMETIEWKAFE NWMHHWLLF\ELSKQSLWEQ/ QSPLDAPK/ENSELEDEPSSGL GVTKQDLGPVPM
19403	49771	B	19516	1	1428	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, v=possible nucleotide insertion)
19404	49772	A	19517	1	2293	MARSEAAAAGPGPGPPGLAAR ERRGGRGCVRG CERASVRVWS VALRRARRAPRPYVARCRRV RRPARVAIGCGGVSSPAGVSGC ARVSPERPPLRLCVWALSRAHG GAVCRAGPGPDSLKRGLTSHPP AFPLHHGSRTL.LLGPLSPPPAAL PFL.LLLWAGHLVAS/ACPGRCIC QNV/SPTLTMLCAKTGLLFVPP/ SIDRRVVLELRLTDNFRRHFAN MTSLV/QLTLsrNTIGQVAAGA F/VDLRALRALHLDSNRLAGC/ GGDQLRGLGNLRHL/VGNNQI RRVESAAFD/DLLSTVEDLDLS YNNLEA/LPWEAVGQMVNLT LT/LDHNLDHIAEGTFVQLQSW A/RAQAHHPLTVSFGGNPLHCN CE/LLWLRRLTREDDLET CASP N/NLTDRYFWSIPEEESCTRCQR FCG*ASLVAAELTSNSVLIRW/S TQRPVPGIRMYQVQYN/SSVDD SLVYRKYSLSYMNFTMR/MIPST SQTFLVNDLAAGRAYDLCVLA VYDDGATALPATRVVGCQVFT TAGDPAPCRPLRAHFLGGTMII AIGGVIVASVLVFIVLLMIRYKV YGDGDSRRVKGSRS LPRVSHV CSQTNGAGTGAA/AGPGPAGPG PLRGAARGGV/WLPPSPSRPR PWRPR/LASAEPEVVLGRSLG SATSLCLLPSEETS GEESRAAVG PRRSRSGALEPPT SAPPTLALVP
19405	49773	B	19518	97	255	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
19406	49774	A	19519	1321	1728	EHAHDRDLHHAHYVQATLVR ASLREAVVGSPTDAWLQORTA RSSASLLARNRPATSVWLPRA GFIAGTGGRERRRGSEGWEG GAGGTGAGLSAHSQTSACEGS/ CGGSAGRGRCLLSAATPPLQPP RPAPPTAGLVQPRQVPTAPPRA SAGNEHHQGWSGRL*KSLAAA RVGEAPGKLP RPDRFRKQSNGA LARASLRVSAQPGTSSSAAAF PPLGPAPLAAPARSCDESGPRQP DGRGGVPVPGQQQGA/ESEPCA AATRRPWVNNRR/TSRREARTS VACT*CAWCRSRSCACSHSPWS SASSSSAAICSSSPRA*STSS*RT GGRLRRWRRWSWGPTDPPYAP AATAPTPAHFASP/ACAPHYQR LGEANLSESHLD/CRPFGKKRP VSPSPSESPHAWQSESAQTLN SAESGKKRAIRAQNFGR/LLLT WNAGRPTVRRPFTRRWAKLW GQVERAGRGETQRH*SPCDRKS DLLKATQQTGHGVSQIRVRVRSP LFSLPPCPRKGGANKIPLNCKR ARFKKGFFVFCLEIQMFE
19407	49775	A	19520	192	447	
19408	49776	A	19521	1	591	
19409	49777	A	19522	281	421	
19410	49778	A	19523	174	512	
19411	49779	B	19524	67	1166	
19412	49780	A	19525	1	1620	MGAKDGRLLSESSQGLSSCGAS LVPFCVSKSRLLMKTVPRLDKE TVSTVDSGAPTDLAQLPTVLKQ PCCSVMASGQFVNKLQEEVICP ICLDILQKPVTIDCGHNFLCKCI TQIGETSCGFFK.CPLCKTSVRK NAIRFNSLLRN.LVEKIQALQASE VQSKRKEATCPRHQEMFHYFC EDDGKFLCFVCRESKDHKSHN VSLIEEAAQNYQGQIQEQIVL QQKEKETVQVKAQGVHRVDV FTDQVEHEKQRILTEFELLHQV LEEEKNFLLSRJY.WLGHEGTEA GKHYVASTE/PTVERSQAHA*FP VCLLASDYDEISGGGASSQDTKT FDVALSEELHAALTSAPDLILS QDEIVTLNLASQGGSKQRGNPR RFYRRGFLEVEPLTGFVELHSS GSQCQALIESGSRDELVPVCPNK
19413	49781	A	19526	203	359	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
19414	49782	A	19527	135	466	DPAGSSAASMSSAAGLCALTPP /GLLSGLLLLLPLVVFASAEA\ EEDGDLQCLCVKTLPGSVPGH IHQLGG*FKGRDPHCPTCT**A TVEGMGRKILLGTWQAPLLQG
19415	49783	A	19528	46	468	TGPTHASAAILVPRSLHKMPGE ATETVPATEQELPQPAETGSG TESDS/GKSPASDTYIVFGEAKIE DLSQQAQLAAAEKFKVQGEAV SNIQENTQTPTVQEESEEEVDE TGVEVKDIELVMSQANVSRAK AVRALKNNS
19416	49784	A	19529	337	509	ISQQLLVVLACINLRSWLPQKL CKYLKQDVLTAIDLSEVPEFC PFVDHLVVALEEEGPAL*GHPA SDTYIVFGEAKIEDLSQQAQLA AAEKFKVQGEAVSNIQENTQTP TVQEESEEEVDE/TGVEVKDIE LVMSQANVSRAKAVRALKNNS NDIVNAIMELTM
19417	49785	A	19530	91	1019	GELLALLGHRVPTRPWASGQK GVCGWCPGKSTLQGLRCGPTR ACRDGSSCSVEGGRGVRLVLG TASQDPEKEMPGEATEPVPAIT EQGVAASPRAETGSGTESDSD ESVPELLEEQDSHPGQPHNKAQ AGRQQSEIDEPVS.KAKQSRN* KEGPGRAMSQTVGEQVTVGT KEFTNRKSKNILLCHPPKPDVY QGAPASRYFTIVFGGSPRSEDLS PSKHNLASCLRNKFKQGEAVSN IQENTQTPTVQEESEEEVDE TGVEVKDIELVMSQANVSRA KAVPSPEERTSNDIVNAIMVS
19418	49786	A	19531	1	261	MWGFHSHPGTGQARAYTDT GSPILIMHVNRGRHSEIPVLER NLLHFRMDAST*NLGMSSLM AILKNQFRHVS LAVSFAFSGEK
19419	49787	A	19532	277	349	
19420	49788	A	19533	792	1014	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /possible nucleotide deletion, \possible nucleotide insertion)
19421	49789	A	19534	849	1752	GESRGWERRKCVRLSSYATHL SVCDCHIGNVREGADPAGGAG *L*GARQQQTHTHKPAKATQR GEDREEKKRETKREERLQQQE NERDERGRREKEPRNRGTKRRE AEKGRRR/ESEKREEKGEEER QERQQKRAREKRRGRGARRRG REKKKTQRPRTQAQRPLKKIK DYTHHTTQTPTQHHHTHTTKH KQPHNTNTTVLFFFLAKEHR RAARKQHEPERGGGSKAGA KIKHTSIAAADRRHDPRTQD TRRKEGRRAQSGKHGRTAHKT EAGGGIPVHSTSRVQVILLQPP
19422	49790	A	19535	139	470	
19423	49791	A	19536	2	83	
19424	49792	A	19537	32	434	NRRKGA/GPVFQRAT*KH/RV*R AGLRVDFAEHRYGKGVKD IHNPRR/GAPLAKVVFRDPYRFK KRTELFIAAEGIHGTQGFVYCGK KAQLNIGNVLP/VGTMPEGTIV CCLEPRLCRKRRTSAEGLNKV CVYAT
19425	49793	A	19538	10	443	
19426	49794	A	19539	63	376	
19427	49795	A	19540	170	368	
19428	49796	A	19541	175	427	
19429	49797	A	19542	1727	2262	
19430	49798	A	19543	131	596	
19431	49799	A	19544	695	1337	GFGTQGERRRQCRLRVTPQLG ASSATQKITPALPETPVKAEQSC TLPLSPRTPGHLQPLRLDPSPW AVLIRGQKRGAGSVVRRATLR HGK/GAVRRLLRRWISPERHGY IKGVKDIHRPRSRAPPLRQR WFRDYSYRF*ER/TELFIAARG AFHTGPSFVYCRQERPSFNIGQ WCSFVGHHCLEGYNSCCLPWK EETLETCKGAGPAGFKGN
19432	49800	A	19545	1	813	
19433	49801	A	19546	227	381	
19434	49802	A	19547	135	740	PQPLPPTSMARHVLTGPPGV GKTLTIHKASEVLKSSGVVPDVG FYTEEVRRQGGRIQGFVTVVVR HPGGLLSRVGLEPPP/RENVNAE LGSYVVDLTSFWSWALTRLE GM*ADCQQWAQGGQRVCVIDEE LGKMEALS VKFSKAVRQTLS YPRDI*SL/VHKSQVPKGLPLAL VEEIRNRKDVKFVNVTQ/ENRN HLLARYS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 9,540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=-possible nucleotide deletion, \=-possible nucleotide insertion)
19435	49803	C	19548	251	574	
19436	49804	A	19549	2	450	
19437	49805	B	19550	721	3048	
19438	49806	A	19551	3	396	
19439	49807	A	19552	2	450	
19440	49808	A	19553	2	1152	GPPLHCTRAAGIRHEAPLGLAG LCRAADAGLCSAGWGFVKVV KNKAYFKR/YQVKF*KTPERV KRDYYARKRLVIQDKNKYNT KYRMIVRVTRDINLSRLLYA PV*RGDMDSLAQR*LHTELAKI LVVEGLALTNLPAALFVPGPA CLAPQAFLQ*VLAMDKDLLEG PSWS*LGDEYNVIESIDGQPG FTCYLDADLARTTTGNKVFG APEGAVDGLSNPHSSKRFGL/ YVYPLHSTQTDSPGFMDSKQR NFNARSTSGKHIMGQNCIQDY IAL*WERKMKDAYKK/QFSQY IKNSVTDPMMMEEMKKAHA AIRENPVLWKRRPKERSLKRR GWNRSQNVPLLRKKDRVA/Q KASFLQSSRSGLLESLETPAIFP
19441	49809	A	19554	3	991	LTSRGVGSACVMLLLVRAGAR AWLRPTGSQGLS/LAEEAARA TENPEQVASEGLPEPVLRKVEL PVPTHR/RPVHAWIESLRGFEHE RVCLVDLHPDVFANAPRLDILH QDAMLQKNF*RI SYAKTKTRAE VR/GGGGKPLAARH/WAGPA WQHPLSALARRRCCPWPPGPT SYYYMLPMKVRLGLKVALTV KLAQDDLHIMDSL*LPTGDPQ LP*PELAHYRRWGDVLLVDL THEEMPQSIRI EATSRLKTFNL/ PAVGLNVHSMKKHQLVLTLPL TVAFLEEDKLLWQDSRLQTPLY PFSL/PYSDFP/RPLPHATQGP/A ATPYHC
19442	49810	A	19555	31	305	
19443	49811	A	19556	213	541	DGGPAAHTPGAARGELSPVGD SGGYFRPSHLRCWILNLCISVPL SSAKDLLHPSSEEEVRRNPMKN RLVQSPNSYFMDVKCPGEETV CCIGESTGPQQLENVVLA VSY

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, v-possible nucleotide insertion)
19444	49812	A	19557	164	591	DINSRDRSGPRATRIDGSGEGD KMAAQLRHRHQRRGASSPRFA KDILLHPSPEEEKRKHKKRL VQSPNSYFMGVKCPG/CFKFT TVF*AMAQTVVLVCVG/CAAPLF LCQPTGEKARLTEGCSFRRKHA LKATLSQDEWETILQ
19445	49813	A	19558	362	916	GGRCTMARTKADWPANRTGG KAPKEANWLTKSPLRKSAAALY LEGSKKPHRYR\PGTVAPP*NLD GYQKSTVELLIRKLPFQ/RRLVRE IAQGLLKQDSRFQSAAGCFAG RQVRAYLVWPFLKDTNLCA/HH AKRVTIYAKKTFQLSTPAYRG EPCFKDPLMDGETFHSQKKKK KISLLPVIGSSER
19446	49814	A	19559	849	1261	DGHIAGGPCS*GWPRDPAPKSQ PTMSSGSEPEKLPPAPRPQHYCS PAEVSGRPFAVGKALNQQAFT ERRLHTSLCPVPAALTVPSPEL PQQIFPGLAPATHLYSKAWA GATVSRPGAILGAGLYWGLVR ETAS
19447	49815	A	19560	3	1852	
19448	49816	A	19561	362	1298	QGGNRNVRHPSPLLAWGSDLIV KPHWLHWLLDLNHARLSALFA AAGARLPSHIPAPSAGSRRLLL LLGGCRACLLFPPEMANRGPSTY GLSREVQEKIEQKYDADLENK LVD\WILQCAEDIEHPPPGRAH FQKWLMDGRVLC\KLINRLYP PGTRSPYPRFSESKDGFGRWE QISQFLKAAETYGVRTTDFIS RRWFLWEGKDMAACAEGP*L ALGSVAVTKDDGCGYRGPSWF HRKAQQNRRGFSEEQLRQGQN VIGLQMGSNKGASPGGP*TGYS ECPRQIHVTRHPAPWLERTNV STPWSFTKKK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19449	49817	A	19562	3	2518	AAGEWPQRPRAAVAAAGAAA RQRLPGSRQVAAGAPQAGGG DPSQRPPGAELIKVQVYVSGE LVPLARASVDVFGNRTLLAAG TTDSEGVATLPLSYRLGTWVLV TAARPGFLTNSVPWRVDKLLPL YASVSLYLLPERPATLILYEDLV HILLGSPGARSQPLVQFQRRAA RLPVSTYSQLWASLTPTASTQQ EMRAFPCLPGH*GSSSGNGSW LELMPLTAVSVHLLTGNGTEVP LSGPIHLSPVPSETRALTVGTSI PAWRFDPKSGLWVRNGTGVIR KEGRQLYWTFVSPQLGYWVA AMASPTAGLVTTTSGIQDIGTYH TIFLLTILAAALLVLILLCLLIY YCRRRCLKPRQHRKLQLSGPS DGNKRDQATSMSQLHLICGGP LEPAPSGDPEAPPPGLHSAFSS SRDLASSRDDFFRTKPRSASRP AAEPSGARGGESAGLKGARSA EGPGGLEPGLLEHRRGPAGAAA FLHEPPSPPPFDHYLGHKGAA EGKTPDFLLSQSVDQLARPPSL GQAGQLIFCGSIDHLKDNVYRN VMPTLVIPAHYVRLGGEAGAA GVGDEPAPPEGTAPGPARAFPO PDPQRPQMPGHSPPGEGGGG GGEGWGAGRAAPVSGSVTIPV LFNESTMAQLNGELQALTEKK LLELGVKPHPRAWFVSLDGRS NSQVRHSYIDLQAGGGARSTD
19450	49818	A	19563	206	1126	LESGSHIYAFSHESLLHVASAS V*TSFSDFATSVCHSPHCLH HALIPHGKGECSSVSGIVATGF GATGFLGRVCVNHLGRVGSQIP QAIAQVSKEAEVGKFIHVAHLN VNIKSSSRYLRKKAVGEKAVR DTFPEAIIVKLLDIFGREDRFLN YFANMCWFGAIPLVSLGWKAV KQPVVYVDVSKGIVNAVKDPD ANGKTFAFVGPNRYLLDFLVK YIFAVAHSKGWVARDFEISPF SWTTRDKVERIHITDMTSLHLP SLEDLGIQATPLELKAIEVRLH HTYCWLSAEIEDVKLAKTVNI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
19451	49819	A	19564	196	553	KLSEFFLTHSINTAIRNGNLVFN NRVTEVTRSGGNELGSPCLLAI KFTLLSFLGTGTTRRLPALRPRR LQQRGSHGLAGRLFTLWILHA GCHARGELEPDTC*LSLCRAR KPRLSLTK
19452	49820	A	19565	1	505	ATEDPGVAMGRRPARCYRYCK NKPYPKSRFCRGVPDAKIRIFDL GRKKAKEVDFPLCGHMSVDEY EQLSSEALEAARICANKYMKVS CGKDGFIHVRVLPFHVIRINK MLSCAGAD/RHISKKGWFTKF NADEFEDMVAEKRLLPDGCGV KYIPSRGPLDKWRALHS
19453	49821	A	19567	6	904	AQLSSLA VPLLVTLPFRSVLVFR SDSLFFVAATEDPGVAMGRRP ARCYRYCKTKPIYPKSRFCRG CPLMPRIKIFDI.GRKKGKKN EFPLLC/HMSVDEYEQLSSESP GRLPRICPNKYMKVSCGKDGFI HISRVRLHPFHVIRIHKMLSCA GADKAPKQACRGAFWKSPPKGN LLARGSLAQVIMSIRITKLQN KEHVI*GPAARPSFKFPGRQKI HISKKWGFTKFCQ*WNLKDM VAEKRVHPHMACGGQSTSPSR GPLDKWRALPLHEGLPNVAA HPLNTPIKFLLPWSKKKKKK
19454	49822	C	19568	346	471	
19455	49823	A	19569	1495	2780	EGLHLFCDLLDGLPGVQVAGG FDSFSSILASFTYWHDFNSTML LSTFRDINLGMNIKKSAVCFSR LGSETWEMPANLRPSEGART RTELSPQTSPRAHLAWRGRGG LGA VRPRRLSRRLSL*KP*RSI* AEAPAGAPVRRCPAAPP/PPRP SRGSPSTPPPPSPGA/PRRRPP CSEHNKLSPPPPSSLCRLPAPSP RPAPRRSPSRRLRRRHPRPAD RREPLASATRVRLPPPPPP*PP SSSCPRRGRRFLAPWLARPA APRRAPCSRAARSRRAGASGAR VGDPAGAGRGWRRRAAGRP* APERPPPPPLPAVCEVSGGLRA SFADSVPGVRRRRPPGLGTLSS SGV*PRNERGVETTTWSGGGSE GAPGSGEGGNLFPAPQVIVARS GEGTVVPRFPVCQLRDSAVLLC LFD
19456	49824	A	19570	178	256	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, v=possible nucleotide insertion)
19457	49825	A	19571	622	1726	QSGSRTMMRMLVPASVGLLET GPPGDPSSLSHPLSGDVTVPED QSTVQKLA SDHKDIHSSVSRV GKAIDRNFDSEICGVVSDAVW DAREQQQILQMAIVEHLYQQ GMLSVAEELCQESTLNVDLDF KQPFLELNRIEALHEQDLGPA LEWAVSHRQRLELNSSLEFKL HRLHFIRLLAGGPAKQLEALS ARHFQPFARLHQREIQVMMGS LVYLRGLGLEKSPYCHLLDSSH WAEICETFTRDACSLGLSVES LSVSFASGCVLPVLMNIKAVI EQRQCTGVWNHKLDELPIEIELS *SAWYHSVFACPIRQQTSDSN PPIKLCGHVISRDALNKLINGG KLKCRYCPMEQNPADGKTH
19458	49826	B	19573	271	392	
19459	49827	B	19574	58	296	
19460	49828	A	19575	215	861	QLPAESVTRTRGPAKAQARAGG PPGPWHCSYKWRAPSSLSGT GWPDMEGETTAAAPASRENSA DCSAIGEIRGPGKELWSPIQ VTATSS*MGRDFVLAT*EKVSH VDS*/EQPRSLQR\DPRAAGPAQ AKQGTTPRAQASRESLSRPTAA VQLPSGQHPVITSGS*KGLAG KTSMGRKGLPWARGWAPWSL EAQNPRPTRLCDLFTGEDFDD DV
19461	49829	A	19576	65	782	SSSSAIQRKPRWVLYKYIQEL WRKKQSDVMRFLLRVRCWQY RQLSALHRAPRPTR/PDKIARRL GYKAKQGYVIYRIRVRRGGIRK RPSFLKGATYQQSPVHWSVFN QLKSFASE/VLSPFARGRRSLG RH/CGGLLEEFNFFNWVVER FPHYQIFLKVIPHLPFP*KLFRR N/PDQTLHQNQVHKHREMRG LTSARPEKSRGLGKGHKFHHTI GG/SLRRATWRRRNTQLHRY R
19462	49830	A	19577	1	179	QEDYLRRELLTMDGR/FTDEEV DELYREAPIDQKG/MFNIEFT RILKHGAKDKDLKEL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19463	49831	A	19578	144	722	KKGLNHHHVEQNNTPRPRSG PQRATSNVVFAMFDQSQIQEFK EAFNMIDPDQDGFHRPGKICND MLASLGAKNPT*WSILDAMMNE VAPGPPSNFTWPFPHHGFGEV* MATRS*KMVIRKCLTCFE*KK PLGTIGEDYLRELLTTHGGIGF TDEEVDELYREAPI**KRGISITS EFTRILKHGAKDKDD
19464	49832	A	19579	3	429	VACLREHKQRCERATRSLLREL LQVRARVQLQGSELRLQEQEA RPAQAQPEKEAPEFSGLQNM QALDKRLVEVREALTRLRRRQ VQQAERRGAEQE/DRPQTGQA DRLAAAGGAGPGGGLRRPAEE PRGQQPEGPGGGGQN
19465	49833	A	19580	1	2454	RFPAGVAPRRAMANVSKKVSW SGRDRDDEEAAPLLRRTARPGG GTPLLNGAGPGAARQSPRSALF RVGHMSSVKLDDELLEPDMDD PPHPFKIIPHNEKLLSLKYESL DYDENSEQLFLEEERINHTAF RTVEIKRWVICALIGILTGLVAC FIDIVVENLAGLKRYVIKGNIDK FTEKGGLSFSLLWATLNAAFV LVGSVIVAFIEPVAAGSGIPIQK CFLNGVKIPHVVRLKTLVIKVS GVILSVVGGAVGKEGPMHSG SVIAAGISQGRSSSLKRDFKIFE YLRRDTEKRDFVSAGAAAGVS AAGFAPVGGVLFSLLEEGASFW NQFLTWRIFASMISTFTLNFVL SIYHGNMWDLSPLGINFGRFD SEKMAYTIHEIPVFIAMGVVGG VLGAVFNALNYWLTMFIRIYI HRPCLQVIEAVLVAAVTATVAF VLJYSSRDQPLQGGMSYPLQ LFCADGEYNSMAAAFFNTPEKS VVSLFHDPPGSYNPLTLGLFTL VYFFLACWTYGLTVSAGVFIPS LLIGAAWGRLFGISLSYLTGAAI WADPGKYALMGAAQLGGIV RMTLSLTVIMMEATSNVTYGF IMLVLMATAKIVGDVFIEGLYDM HIQLQSVPLHWEAPVTSLSLT AREVMSTPVTCLRRREKVGIV DVLSDTASNHNHGFVVEHADD TQPARLQGLILRSQILVLLKHK
19466	49834	B	19581	508	4413	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19467	49835	A	19582	8	331	EVTACWQSSQPSLTLSASSAWA STLAALPEPFPPLHSESPFLGW PRPELGPSAAPCAPVPPEPPQRV PPAP*RPVPSTTQGLRSVGAW CRTGRQLHLIIPGVGSGT
19468	49836	A	19583	831	1121	
19469	49837	C	19584	1	1524	
19470	49838	A	19585	270	578	RFSKSPDPSGAQLAAPSGSRTG AAGGAACQSRVVRPHSSALGW SMGLGAMEQGAFLVGEAWAT QQPTVGGRLRHGGQLQVPSAPPR GG*GPAKSHSSCWPRC
19471	49839	A	19586	2	298	
19472	49840	B	19587	113	515	
19473	49841	A	19588	1	569	MLPDLRSPVAHHRCSRASGNY HSGRHSPAPAWRVLTGTWLDQ RSSRIHRSALFKDSYSKGEERT HIKMCSELLPSG/EARGLAGFR SEAADLRGECYSS*RQCGPKEL RSPAGFTQWIPHWGYRWSCLS VPRPAPALLSPWVVDGTGRGC AGGGAHRRGSGRSGAHGGGG RLRHGGQLQVPSAPREGS
19474	49842	C	19589	1	1200	
19475	49843	A	19590	511	846	ARHRVLIGVFTPELIDKVLHVP TRLRSPASFTQWIPHWGCRWSC LPVPRRVPALLSPWVVDGTGG CGAGGGAHRRGGWGCTGAHGG GGRLRHGGQLQVASAPREGS*G PARN
19476	49844	A	19591	9	481	QQPLREKSPASGDHPAKNANRR WPSPTRYPYVES*NWMPSLHLI KQSIQDGLKT*TLDLKP*KL*KK T*ALPFR*ARTSLKHQKQ WQKTKLTNGI*LN*ASA/PA KETKI/SSEQATYKMGFNHNL LF*QRANIQLQ*TRDLQEK KQPHQK
19477	49845	A	19592	1	3339	MSVRKDVKELEPSDIVCGNVQ CYSCMETNLTVSQVKHEVT GPREGATKPNRMKGKEGRSGS LLGEGDFFKDESMSSQSSKD GEKRRGKAQRWKWPMQGICR QLGVAKSMEGYQSRDQGG GVSDKWQVCAKKPEFYPTAQ VWANFSVTSCQSVTITQLCHGL RRLEISPARSNAMHLNPDPPGQ KQNLSPKVNDIITDISSSGGA GKFQVISKSDISEVLLQMDAG HSSKDDPNEYGGWKSPPRC
19478	49846	B	19593	1	631	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, v=possible nucleotide insertion)
19479	49847	A	19594	71	208	PCPKHCKSKFPMCPPELVGWSH* LQE*SHGSPSRFRLC*KQPQDLQ
19480	49848	A	19595	138	650	AWAQLPSALGSTRVSPPPSARS QPPWRRRRHKVCWRLNRCKE/L DEDAVASADFSMLSEEEKEEL KAELVQLEDEITTLRQVLSAER KAS/ELR*NKNSA*T*/CNELKPE LQKQLA*HAD*HCLQEDT*YAE SRRAGKNCSPQQRWNGHQQEV RRHELLHSPFHKYACYETKVG
19481	49849	A	19596	1	1222	MRADGTA GKDPFATDKQLPEL LIQHCWDGLLA VCGGSTVGV LPFILHGSWVRPVAASFPLPDN LHDSAEPAILLEPTQMRNRQK TNAGTMTKQISSTLPKNHHTSS PAMDPNKEIHDLLKEFSRLVI ELIREGPEKGAQCEEIQKDDT KVKGEIFKEVDLSKKQLNIQE NLETLLV/LNALESLSNRIQVE ERNSEREDKVFELTQSNKDKA QRIRKYEPSLQEVWDYVKLPLK RIISFPNEEENSKSLENIFRGRK EHFHSIARDLDIQIQEEQTTPGK LIVKRS�PRHIVIMRAPTPMDHP RAEECGRRARDWQAAPPAAPV RDPLGEASWAPDSEGRK/WNTS KHQRNKLRTLRL*EL*HSSRGS VASFLKSVRPRTHQFTQSGYP KLRRWRKES
19482	49850	A	19597	381	598	
19483	49851	A	19598	1	1906	
19484	49852	A	19599	493	589	
19485	49853	A	19600	60	261	
19486	49854	A	19601	1423	1831	PRRSANVNLPPQLATLSPGW EERKSVGSPTSPPPRPLRLSA APGSGGAWPEGAWSLD*TAS PAGAPVQRPAGNG/PSALDASH ARALYLQRIPRVTWTPASQPPA PLGPFPLIPPAASHRPQSSFFR RHR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19487	49855	A	19602	1	1535	MEEKTNVQLPPGQTEQHVEIHI MNFCSKNHHRITPEKPKELTDP FKEAACCCCKLYEIDKKLYRMA EWIKIHKPSICCLQETHLTHKDS HKLKVSITFKDLAVRFSEEEWR LLEEGQREFYRDVMRENXYETL VSVPEGRAVGGGSHADEGQEP AGCG/VSPGPGAAAGGEDPRVLV WRSQGRYGGPRER\GRGASLD GERASPEAA/DGKRALPSRPA QLPSRRYPQAPPG\PTPTDSSCS SGPTGDGVQGSP\PIRISPGNSP L/PRPHQLSEGNPCAWAPAPRDI PKLLATSP*PGHVQANQSRPGA WEPALGRSDQACASGSALC ERW\PQAP/APPEEPPASPSPA APTG\PGFWESCGEPGAA\PGKG SAPKPSPLHCLESALRGIL\EGP CASPAWEAPAPAPAPAPARASA A/AEGEDPRPEPELWKPLPQER DRLPSCKPPVPLSPCPGGTPAGS SGGSPGE\APGEQSPGTAAASV Q/VSPAHWPCFS/SPVRYSSGSLP GFSAGEKAQG
19488	49856	C	19603	4	150	
19489	49857	A	19604	148	448	RTRDWSLFLMFQCVRSFFLLV GLWSCWLRSEAADLRGECYSS *GGAGSVVRSSWWVRGLTSFR SETGFTQWIPHWGCRWSCLPVP RCAPALLSPWVVNG
19490	49858	A	19605	136	439	LVHFTFC*LVRLQTLARHSTDW CIYKSLARKSSPSPHSTQEVQL ASPLTGRQEDCSEPRSAPLHSSL GPTERDSICVAASSVRWTRPGA RFS
19491	49859	A	19606	2	399	SKLQKLKRSLSFKTKSLRSKSA DNFFQRTNSEDMLQAHMVAE ISPSSSPLPAPGSLTSTPARLVCI QVARLMPFRNTSSRSLFC/RCL QPHDSGFLFLRPARPRAHREER NNSRRVALRAVTLTTERLQLHS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
19492	49860	A	19607	1	1262	MPLSYAYKNAETLAGRHTSSW MSRGAYQRRNTRAAGRPEECT DRNWHAGRTRRIWLGQLEERC SDVFGVSFFWWVRGLAGSGAK LQFTTVSVTAHRGSKDQKSEQ KQDLLQKAKEQTIHNVKGDPS ELPLLAPAAACFSLICPRPPHIL LIGPFYRELIGPFYRELIGRLRP GEKSSTAA/VWPRC*AA/RLPGA G/WTAPSAGPAEPTPTWNSRWP ASATRRPGSRRLSLHTSPQAE GAGSGLSQPRKGLPQCSGRLKR SSSAARVGARQRRRRERASEG/ WPACCHSLVPLCPGFGFLEAHSS SPEQTDHEQNCPADIKVMRLA GQPTNARGAANRAQPLHSTSV SHLKAVIFKIQTRQQKNSHFPL FLEMTTSLATGRLRPSWVDYA RPALSVSVSRFSLTSLLELLV ETLGECGLL
19493	49861	C	19608	173	394	
19494	49862	A	19609	1	924	
19495	49863	A	19610	3	689	EVQEELEGVPRGAPHQLHQGP VEHLEAPHQHKFGKKVIYFNY LSELHEHLKYDQLVIPPEVLRIT MRSSRACTRAGRRLPPRHRR GPRCPHSSLASVCNTSKTKIKA NSSPLC*GSQ*RT*ERKACAPRA CSGDPPACRPSARSRGSTT/KGK PVNFDDYGDHHPAIVILKTLFRE LPQPLLTQAYEQILGITC/GGE QPACHSLPPDLTEPPRAQLRRPP LPHGLPACG
19496	49864	A	19611	1749	2411	APSCLVSEHSAGFPQRELQPPLL TFQAYEQILGITC/GSCP/AQGW GAWSSDAVPQLLARRPPLPHGL PACGEWGRGELGVKPSGLPSH AGPAWGHQVRTVCATAHPQD CISPEGAVEEIVGG*GC/TEGQ SQRVLQIWP/SQGVSSLSALVPL NMFTELLIEYYEKIFSTPEAPG EHGLAPWEQGSRAAPLQEAVP RTQATGLTKPTLPPSLMAARR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met bod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /possible nucleotide deletion, v=possible nucleotide insertion)
19497	49865	A	19612	883	2164	EHRRPMRAQASHEGHRHPMRA QMSHEGYRRPMRVQASHENTG VP*GVQASHEGTGIP*EHRCMP RTQVSHEGTGVP*ECRRPMRTQ VGPMRGTVGP*EHRCMPRGTV P*EAQASHEGHRPMRGTVGP* GAQASHEGHRCPMRGTGVP*G HRRP/DENTGVP*GHRPMPRAQ ASH/REHRC/DEGHRRSP*GHR RPMRAQASHENTGVP*GAQAS HENTGVP*GHRPMPRGTVGP*E VQGV*GHRPMPRAQVSHEGHR RPMRTQASHEGHRPMPRTQAS HEGTGVP*EHRRPMRGTVGP*E FRRPMRGTVGP*GHRPMPRAQA SHENTGVP*GHR/PYHEGTGVP* ECRRPMRTQASHEGTGVP*EHR CPMRAQASHEGHRHPMSTQAS HEGHRPMPRTQASHEGHRHPM RTQASHEGTASHEGHRPMPRT QVSHEGTGVP*EFRPMP/PGH HPMRTQASHEGHRPMPRVQAS HENTGVP*GHRPMPRGTVGP*G HRCMPRGTVGP*GYRHPMRTQ ASHEGYR/PSHEGTGIP*EHRC MRTQVSHEGTGVP*ECRRPMP TQVSHEGTGVP*GHRPMPRTQ VSHERHRRPMPRTQASHEGTG VP*EHRCMP/MGHRPMPRTQASH EGTVGP*EHRRPMPRGTVGP*EH RRPMPRAQESHENTGVP*GAQA SHENTGVP*GHRPMPRAQASH
19498	49866	A	19613	1	552	VPQDSLQALAGQATPEIPLGL QLHTVLVQEIQLIEAQTRAPGP CAEVRLPAPAAEPAPAWEEAP PERALELEGAPAKDQTNELPEI TA/PYC/EPLALTLKAWLERE VGGRGIDQHSQSLLPCCP*SW ARWQTCRQRAGHLA WPPVPRC REASLIH*NHSPAAAGPFILLILV YLCAGGA
19499	49867	A	19614	443	991	VDSRPMNLNRLMRTSGRRWTP RPQVDTRP*VNNKTQ*AIRPQ/C GYSPQVPQDSLQALAGQATP EIPLGLQLHTVLVQEIQLIEAQ TDTCSSWMCRSKSTASTSRWS Q/RPAWEEAPPER/GTAGGSSS QGPDRGAA*NHGGAGEH*KK AGRKSSERYACSRQPPPPGM DAGPQLGIQAVCP
19500	49868	A	19615	16	450	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 9,540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /possible nucleotide deletion, v=possible nucleotide insertion)
19501	49869	A	19616	2	477	PRVSRGHSMDMRVPAQLLGLL LLWLRGANDIQVTQSPDSL SVGDKVTITCRASQGISNGLSW YQQKPGQAPTLLIYAASSLQSG VPSRFGSGSGGTDFLTISLQPE DVATYYCLQDYTTPTFTVLQAIT KTPQR/IDV*VCTVLATPPGVIN WL
19502	49870	A	19617	2	675	LPLSSSALPTESGSHLPFSGIMA RPSDPLVKPQRSSKREPCKVHP GTQSDRIYVKIKR/NWAENPRG/ IDNMRVR/RRFKGQDLDAPTLG YGSNKKTKAHACPSGFREVPG VHNVQGSWEVACLMLQQLY CCRGSVHNVFLPRNRQSPSWG KELAQGLSGVHPTPLARAAQL KEN*VRQLMCNKSYCAEIAHN VSSKNRKAIVERAAQLAIRVTN PNAR/SEENE
19503	49871	A	19618	2	527	VWAANMPSRLRKTRKLTGHHG AATGHGPHRPSTRKAPPGGPR* MPGGPAIHPPGSNFRQNTHPQA YFGK/VG**KHYPT*KRN/QSFL PPTVNL/DKLWTLVQ*NRHRVK CLPKNTGAAPHHMLMLVRSYG LQSSGERGKLPKASLFFVEGPK FFRRSLREEGLRGVWGGPVSL
19504	49872	A	19619	45	233	
19505	49873	C	19620	95	154	
19506	49874	A	19621	2	241	
19507	49875	A	19622	63	320	RQWGNRLVTA/WSFFSWLSDC EGPGYGTIAEVGQLWGIMAKD LLRHSLASEELALNQLTCHDQ FAQSTRSSARACGSIFCSTTQGS
19508	49876	A	19623	2309	2560	RNREARFYMTTPNFETETKR/WF HERVICALEREREREVTKISRL EDNHRLVGDISQLKKELDQYL QAISLDEDCNGKRLQLILEA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=-possible nucleotide deletion, v=possible nucleotide insertion)
19509	49877	A	19624	4994	7008	QWQQPKLTNDNLKFIWNQKR DRIAKTILSQKNKAGGITLPDFK L YYKATVTKTA WY WYQNRHI DQWNRTEPSETIPHIYNHLNFD KPDKNKKWKGDSL FNKWCWE NWLAI CRKLKLD PFLTPYTKIN SRWIKHLNVRPKTIKILEENLGN TIQDIGMGKDFMTKTPKAIATK PN*QMGSNILNGQKLEAFPLKT GTRQGCPLSPLLFNIVLEVLR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLS NFSKVS GYKIN VQKSQAFLYTN NRQTESQIMSELPFTIASKRKY LGIQLTRDV KDLFKENYKPLK EIKEDTNKWKNMPCSWVGRINI VKMAILPKVIYRFNAIPKLPMA FFTELEKTTLKF IWNQKRARIA KSILSQKNKAGGITLPNFELYY KATVTKTA WY WYQNR YIDQW NRTEPSETIPHIYNLIFDKPGK NKQWKGDSL FNKWCWENWLA ICRKLQLD PFLTPYTKINSRWIK DLNVRPKTIKLEEDLGITIQDI GMGKDFMSKTPKAMATKDKID KWDLIKLSFCTAKETTIRVNR OPTKWEKIFATYSFDKGLISRIY NELQQIYKKKTNNPIKKWAKD MNRHFSKEDIYAAKHKMKKYS SSLAIREMQIKTTMRYHLTPVR MATIKNSGNNRQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19510	49878	A	19625	1	764	GSSEKRRKFKTGNQKLSMEVEK NQQMRSLSLYQQRVEGSKCAV RRKGGSPKPKAFLAAAEKFLN VPVMRSASHEQLVLTGDPNKT LPGKSRLSGTDSPRACSTFPJW ATKJVTEMQVQLFAACRVQLIK HPRPSAARTAMEVLESGEQGV LQWDRKLSELSEPGDGEALMY HTACQGHEEQVWEEALQLGL RSGILLNHWKRQLVGGAGILRS AQLHSPYHHWMISLVSPSPAV MAVMENDDICMVLVCVKVMDE PNHILDAISEHQIPSLDQWFSE CALWTSKAYENLVERHILGPHC RPTELETLGISEDDIDHNPYLDF PGVAGLGSRRNVKERGWLSEM KKEGDIFMKIQG*AICPTSGPAE GLPPPTPVPHVPDRPCGT*GP/PP SPGSDSSVPACGPTAARAPRSP APPWRCGPRWAEDVLLTGLCK QQIAEPAFRLQFWWPI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method in US 5,400,217	SEQ ID NO: in US 5,400,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, * = Stop codon, / = possible nucleotide deletion, \ = possible nucleotide insertion)
19511	49879	A	19626	1	1430	MNGTAEGQHPVWHSTFNGEPQ SLSSSVRVKNQGRDQAEIGFQ GNGSTVPAAQARTIARARGSGS GGGDALQGGGAGAGPGATKR TARLLARGLRRALRPDGRGV LGAGAGSSQRRGGRRRKMETH ISCLFPELLAMIFGYLDVRDKG RAAQVCTAWRDAAYHKSVMWR GVEAKLHLRRANPSLFPSLQAR GIRRVQILSLRRSLSYVIQGMAN IESLNLGSGCYNLTDNGLGHAFV QEIGSLRALNLNLCKQITDSSLG RIAQYLGKLEVLGCGSNITN TGLLLIAWGLQRLKSLNLRSCR HLSVDVGIGHLAGMTRSAEGLP GPGAHAHATGLPEAHRSFSKAHL PRADGPEAPQPQLLWGNLGRW PPAPVAHQPAHAQPCAPCDNI SDTGIMHLAMGSLRLSGLDVSF CDKVGDDQSLAYIAQGLDGLKS LSLCS/RRGLRRAALRPDGRGV LGAGAGSSQRRGGRRRKMETH ISCLFPELLAMIFGYLDVRDKG RAAQVCTAWRDAAYHKSVMWR GVEAKLHLRRANPSLFPSLQAR GIRRVQILSLRRSLSYVIQGMAN IESLNLGSGCYNLTDNGLGHAF/R AGDRLPARSQPEPLQADH*QQP GPHSPVPQGP/ARCWSWEVAAT SPTLAFCSPPGVCSASRALTSAA AATFRMWDRAPGRHDAQRGG GLPGPGAHAHATGLPEAHRSFS
19512	49880	A	19627	293	1520	TTMDGSHSAALKLQQLPPTSSS SAVSEASFYKENLIGALLAIFG HLVVSIALNLQKYCHIRLAGSK DPRAYFKTKTWLGLFLMLLG ELGVFASYAFAPLSLIVPLSAVS VIASAIIGHIFKEKWPKDFLRR YVLSFVGCGLAVRG/TYLLVTF APNSHEKMTGENVTRHLVSWP FLLYMLVEIILFCLLLYFYKEKN ANNIVVILLVALLGSMVTVTV KAVAGMLVLSIQGNLQLDYPIF YVMFVCMVATAVYQAAFLSQ ASQMYDSSLIASVGYLSTTIAIT AGAIFYLDFIGEDVLHICMFAL GCCLIAFLGVFLITRNRKKPIPEP YISMDAMPGMQNMHDKGMTV QPELKASFSYGALENNDNISEIY APATLPVMQEEHGSRSASGVYP RVLEHTKKE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, v=possible nucleotide insertion)
19513	49881	A	19628	751	2034	VSSPTSLGCMRQKEYRIPKLL TNMPFLGSPSLLALRSCHPTG RTCSA/SQVALFCLAAHRVSQIG ALLAIFGHLVVSIALNLQVSFHI RLAGSKDPRAFYFKTKTWLGL FLMLLGELGVFASYAFAPLSLI VPLSAVSVIGKTIIGHIFKEKWK PKDFLSKFVLSFVGCGLAVVGT YLLVTFAPNSHEKMTGENVTR HLVSWIILFCLLYFYKEKNAN NIVVILLVALLGKLTVVTVKA VAGMLVLSIQGNLQLDYPIFYV MFVCMVATAVYQAA*VSQAS QMYDSSLIASVGYILSTTIAITA GKGFYLDFIGEDVLHICMFALG *VLAFLGVFLITRNRRKKPIPFEP YISMDAMPKGVNMHDKGMTV QPELKASFSYGALENNNDISEIY APATLPVMQEEHGSRSASGVVY
19514	49882	A	19629	19	933	QSARPSLKRARSQRGRPLPSRA LVFLFLFFFFNFPLPIHTQPSAH KDMTTNAGLPHYPWPQH/LRL DNFVPMNDRPTWAYTGLGLFSV TGLRSWTTWAVVQGRAPGLA PIGDFGRATVPCCWVLQWCGFI HLVIEGLVPFSNYERPFCGDQSL LYSQLWKEYGQGETARYILGV TNFTVICM/ETITSFA/WGEPFSL WVVIVFLLQHPLRFILQLVVS VGQIYGDVLYFL*RATPTDFQ HGKPGPTPLLLPGFSVFHEMP LWLVPAPGSPCLDA/V*KHPQ LMPQSNANNAKGPQPKSKK
19515	49883	C	19630	113	257	
19516	49884	A	19631	143	330	HHGPVFPFRGLIS*HSLHCPCPT PGGKNVFFCEYFLKLAGIETT NCSADKRGKKVCCLIPR
19517	49885	A	19632	3	432	
19518	49886	C	19633	112	192	
19519	49887	A	19634	1	4410	MARPLALPLTGMSAPGSSLTITP HTPSHPRSPSTPDTVSHPRSPSTP DTVSHPRSRYPDTVPPTLPVY TRHRVPPTLPVYTRHRPHTHAPG IHQTMCTPHAPGLHQTPTCPHTA AGLHQTTPSHPRSPSTPDTVSHPR SRSTPDTVPPTLPVYTRHRVPPT LTVYTRHRVPPTLPVYTRHCPT HAPGLHQTMCPTPRSRSLPDTV PPTLPVYTRHRVPPTLPVYTRD RVPTLPVYTRHRPHTHAPRLHQ TPSHPRSR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19520	49888	A	19635	1	444	
19521	49889	A	19636	3	1017	SSRPVRPRPAARLSAMSSTQFN KGPSYGL\SAQ\VKNRLL\SKYD PQKE\AELRTW\IEGLTGLSIGPD FQK\GALKDGT\ILACTLMNKLQP G\SVPKINRSMQN\WHQLENLS NFIK\AMVSYGMNP\VDLFEAN DLFESGNMTQVQVSLALGG KRPKTKGAAEGGLDIGVKYSE KQERNFDDATMKAGQCIVIGL QMG\TNKCSAQSGMTAYGTRR HLYDPKNHILPPMDHSTISLQM GT\NKCASQV\MTA\PGTRRHI YEYQAGNPTSCDNFSM\SLQ\M GYTQGAQTQSGQVF\GPRPDI *TPSTCPOGTIADGAPSGTG\DA CPDPGEVPEYPPYYQ\EEAGY
19522	49890	A	19637	1	479	MQGLRVSHSTFYTLIPEVTENP HRLDFHWFLSAQLERVASGTL KKKESPPRPKVLGSARWDLPV/ PPGW\CNSTALQ*SPRSDQV*SE RGMEAFFLPMPSVASVCCRF SPWTSQKPOLSTSRDKLQGKR *WFSTGVWAS*DHS*ERRCSQC PKTTCW
19523	49891	A	19638	2	501	FVPEERSSETALQRCSLPPGRRRA APDPGLQGLRGLSGSGSSELES RKAKLRAAEGLRRKTTTEINQRD TADRCTRGGH*SPGESPPKPSAF SL*LSVPRSGKLRFLRSPRREPA AN*SHRLRRHREKKCFHPFTL NLIASGTSLEGGGVAPTWTSTGR SQRALPSTL
19524	49892	A	19639	1	1122	RFILILNHAVFEYQDIFVASFPPI FFNIHCRGEGEREKGAGKDRT PPSTLLCGSGHLLPPLASRRP PRCACCLPGGPLSSSALEAG*Y WRFPKLSG*KRSHTPWVPQPOQ PLPNPSPGKWWASSEALQ/GT RA*RGIAELTHLLRLPARRGTQ RPA\PGHRAGASQFRRREASSRG PGLRPRPGRTRELGFKKRVVWA TAASWPRGTPEPCAAA*RRRRRR RRARGRELSPRSTWSSDTESTF ALSCDPS*PRHQSVPKGRVGS KGKLANKGFFCPTWQRPVIRVAS VDMELLHFVPKRALPGFTIAISF LSSAPPLCPWYSGSNPWLNRPL KPRLAALFQRSAAAPRLHFSGAA SLQVGERRQIRDFRVSAGA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, v=possible nucleotide insertion)
19525	49893	A	19640	14	618	GNENVKSGRKTSLSPFVLSDFT ASSALLASDSSRWMSLQSASEC \PGRAGSGPGYG*PVSEVTGG PLSAHTHSSL*TSQRCGCPGPE HHGAGPFP*GPGLKDVSGRGG NGCWGRRKPAHMGGLGPAT PLQFPFRPSPPPPLGPPQPPPPP SPPLGPASSPP/CLPHRPPPPPPP PSRCVTAPCVTAPGAPTAAAA RRH
19526	49894	B	19641	42	121	
19527	49895	A	19642	1	153	
19528	49896	A	19643	104	355	
19529	49897	A	19644	459	988	DPRTMNLAIISIA/LLTLVQVSR GQKVTSLTA/CLVDQSLRLDCR HENTSS/SPSKYFSLTRET/KKH /VLFGTGVPEHTVYRSRTNF/TS KYNMEGPLTYSAFH*ARTRGTL QVLQFHQFGALSPPIFLSRNV/T VVQRTNWVK/EGI/SLLAQNTS WL/LRLLLS/LLQ/ATDFMSL
19530	49898	A	19645	1	950	
19531	49899	B	19646	55	1459	
19532	49900	A	19647	1	165	
19533	49901	A	19648	183	700	PNGNQPPRETQRI/SGIQR/LGT AVASSGGSRLSPRSASAEPAQG AAARRA/PGPAGRCRAARGAG AGSARRLP*APAHAPPEQGRR/ SRTARSR/AAQPPPPSQPSQPL GPRPSQGA/PQRRGPSSPGPRAG CRAQ*EALTPRLWRSSRTSSR GLGPHVRRGGSFKIPT
19534	49902	B	19649	71	264	
19535	49903	A	19650	3	810	GVSPCWPGWSRTPDFGSPKCP PIRASPAGELQALSSTVTTPYW GILVTA/VFPH*GLRPRQCRQDH PAGRQGP/PGPEVPEILGQSGCT DRTWSKAGGRTQAPGPRSRAG RRVSGQEIAPGLGCRHGG/V GAPWTP/EAASPLTATEPSCPH/L QAPCGY/MLSVSPRRR/YRGA GDQKV/KMLKFA/CLDY/WQF LCLQPLHGAYKRDS/DMTWIW GLLPEVTGAAGT/SPNVHTSGR FFRACVFCPVHTLVKKEPHPGQ QEIHMEPSWSP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /possible nucleotide deletion, \possible nucleotide insertion)
19536	49904	A	19651	258	1378	REILSLDRLPGATPNQALSAEA ACPKGQTSLLCGAMGIQGLAK LIADVAPSAIRENDIKSYFGRK VAIDASMSIYHFLIAVRQGGDV LQNEEGETTSHLMGMFYRTIR MKIENGKPI/YKSGELAKCSEL RAEAEKQLQQAQAAGAEQVV EKFTKWLVKVTKQHNDKCKH LLSLMGIPYLDAPIEAEASCAAL VKAGKVPVATEDMDCFTFGS PVLMQHLTASSDYCKSIWSIGP KRAVDLIQKHKSIEEIVQRLDPN KYPLPENRLHKEAYQLFLEPEV LGPESVELKWSPENEELVKFV CGEKQFSEERIHSQVKKRLRTEK GGGEPRGP/DWTQPGRASPTKR PDHQEDQHTRSRSSESGH*GWL
19537	49905	A	19652	1040	2322	LPACPPASTPASTMSIMVTQKS YKVST/SRWSSGPQAFGNCSYA RGPACISSLSFSRVGSSIFRGVL GGSYGGASGMGSITAVTVNQS LLSPLNLEVEPNIAVCTQEK/T LNNKFASSIDKVQFLEQQNKML ET/ESYNSLKQQLTGLGLERLK LEAELGNMPGLVEDFKNKYED EINKRTEMENEFVLIRQYVDEA YMNKVELESCLEGLTEEINLLG QLYEEIEIKLQSQILDTSVVLC MNNSHSLDMSHAEVKAQYEE MANHSQAEAESMYQIKYEELQ TLAGKHGDDL RHAKTEI/S/EM NQNGAKQDMA/*QLHEYQELT NIRLALDIKITYRKLLEGEESQL ESGMQNMNIHMKTTSGYAGGL SSAYEGLTSPSLSYGLGSSFGSG MGSISFSHTSFTRAIVVKKIEIHD GKLVSSESDVLPK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19538	49906	A	19653	1040	2322	LPACPPASTPASTMSIMVTQKS YKYST/SRWSSGPQAFGNC SYA RGP GACISLSFSRVGSSIFRGVL GGSYGGASGMGSITAVTVNQS LLSPLNLEVEPNIAVCTQEKYT LNNKFASSIDKVQFLEQQNKML ET/ESYINSLKQLETLGLERLK LEAELGNMPGLVEDFKNKYED EINKRTEMENEFVLIRQYVDEA YMNKVELESCLEGLTEEINLLG QLYEEIQLKLSQILDTSVVLG MNNSHSLDMDIIAEVKAQYEE MANHSQAEAESMYQIKYEELQ TLAGKHGDDL RHAKTEI/S/EM NQNGAKQDMA/*QLHEYQELT NIRLALDIKITYRKLLGEESQSL ESGMQNMNIHMKTTSGYAGGL SSAYEGLTSPSLSYGLGSSFGSG MGSISFSHTSFTRAIVVKKIEIHD GKLVSESSDVLPK
19539	49907	A	19654	152	207	
19540	49908	B	19655	75	402	
19541	49909	B	19656	1	2319	
19542	49910	B	19657	1	1341	
19543	49911	A	19658	198	1118	LHAPNSLHHHLPRDLL*LLPLPL QHRVSDPGLHSALRPMEEHRA QS*QPSAPEDAVQA*WGHGGH SPGPDRA GCHHCRGDQERVST HHVLPVCHHPDDAYGGCGAG WNPDL/PQGMRSWMSPKIRPA NWTRTSWWALPQAPGLSPGAQ SWPSFVPRTTPTTGTCTPTPSW *SWRSTSRSSSLNPFTESLKNS LRTSKPFGWSQSAMATPCLLP PASRVELWPETWPLGQGHATS SQWKCVPERKL*QGGEAGGEQ LGREPKSPSPSFLTGQRQEKSP EEYCSLLVPLQYFGSRGTHADL LHG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19544	49912	A	19659	1	2707	MPGPHPASASCPPRLFTPRRRAF CPLRICAPLAAAAFCPPRFLPHT RRRAFLLLCRRGFLPPPCLGGG LAAAFPHPLPLRPHRRGFLP HRRRGFLPPRLGFLPAAAFYPP PPRVFARRGFVPPSPRLFARRA FCHTPPAAAFSPSAAAFACPTA DTAFCTLAALAFRRGFLPPRC RGFLPLRHRRSFLPHRRRGFLPT AAFCHRGFLATAFYPPRLFAP RCHGFLPPCRSDFFAAAAFPCR RRGFLPLSPPLFAPAAVAFCPRH RGFLPLRLFAPVTAAFCHRDfL PPPPRIFVPAATALRAGAADS ASSTGVLAARALRGPCGLHRV ALPVEAMGEKKEGGGGDAA ATEGGTGAASRALQCGQLQ KLIVIFIGSLCGLCTKCAVNDL TQQEIQTPPAKPAKPAQSTRQ PSQPSHPASQASQTSQPAKQPA SQASQPAKPAKPPSQPSQPSHR ASQASQATQPERPASQPASEPS QPSLPASQASQDRQPAKPAKPD SHPRQPSQP/YQPSQASQASQA SQPAKPSRQPSQPRQPSQLASQ ASQSTQPLKPAKSPVQQSQPSQ PASPDQSASQASQATQPAKPAK PPSQAAQPAKPAKPPSQACQP PSQRAKPAKPARQPSQPSQSSPP ASQPSQACQPSQPGSQASQASQ AAKPGMPAKPARQPSQPSQPAS QARHASQAIQPAKPAQ*PSQTS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=-possible nucleotide deletion, \=-possible nucleotide insertion)
19545	49913	A	19660	1223	2286	RQCFKATEQPPAIHHPSSQPSRQ PSSQPPIYSPICGRKSGIQPKFQ LNG*MVNG*MDEISRERHEWP CNYQVRPKAGEKQPGAEANRE TRPEGGTP/RGERGRQGPATRR QKSTPEAGPSDLEKQIARQEAP AGTDEIERQQARPH*AP*KIPVE WVNGEWLNGRMPGDPHEWQC NYQPAIQPAIQPANQLSIHNLW TQFRHSTKIPVEWVNGEWLNG RMPGKHHEWQCNYQPAIQPAI QPAQLSIHNLWTQFRHSTKIP VEWVNGEWLNGRMPEDHHEW QCNYQPAIQPAIQPASQLSIH MWTQFRHSGQIPVEWVNGSRL HGRQQGIFMHGNATSSHSPSIQ PAIQPAIQPANQLSIHNLWTQFR HSTKIPVEWVNGEWLNGRMRQ NIMNGNATISHSPSIQPAIQPAIQ PVNHLSIHNLWTQFRHSTKIPV EWVNGEWLNGRMPGKNHEW QCNYQPAIQPAIQPANQLSIHNL WTQFRHSTKIPVEWVNGEWLN GRMPGDHHEWQCNYQIAPML QSNRTAAASHSPSIQPAIQAAIQS ATHLSIPNLWTQVRHSTKIPVE WVNGEWLNGRMPGRDMNGH ATIRYGPKEKNRAPRQTEKQ GQKGAHQRRREGKARAGNEETE KYRSRAIRPRKTDASRSSRGH RRNRKAASAATLGPIEDTNQNK LHVRDTGLEVKAIISIQPGTLM
19546	49914	A	19661	39	599	GASPNQGNRPHARQAPPPQ/G /PPGEPERRAPLPSGHGEPCHRR PPPPFPQP/AGTQKPLLQPGGG *PAENAPTAALGSPAPPRGCQA APPPRSAGRPDLPTLAGPRPAP A\PPPSA\PPPPPSGAPSR/PAAG RQRLSGVSSGPSLGWW*VGRG RGLPFAQIAGHQVGP RRRTTP AGRKPRSPAGPR
19547	49915	A	19662	39	599	GASPNQGNRPHARQAPPPQ/G /PPGEPERRAPLPSGHGEPCHRR PPPPFPQP/AGTQKPLLQPGGG *PAENAPTAALGSPAPPRGCQA APPPRSAGRPDLPTLAGPRPAP A\PPPSA\PPPPPSGAPSR/PAAG RQRLSGVSSGPSLGWW*VGRG RGLPFAQIAGHQVGP RRRTTP AGRKPRSPAGPR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first endnn for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19548	49916	A	19663	1	379	YFPHTAIRYPPHLNRPDPLKDL VSLACDPASQQPGPLNGSGQLK MPSHCLSAQMLAPPPGLPRLA LPPATKAATTSEGGATSPSP/S PGIWDSKGLLPSPLLHRPNRNR GQHSRPPAHVFGGKLE
19549	49917	A	19664	3	285	
19550	49918	A	19665	2	1556	RLEFPGRRFRSAPAPAGPAPPA APGMYSSPLCLTQDFEHPFIEAL LPHVRAFAAYTWFNLQARKRKY FKKHEKRMSKDEERAVKDELL GEKPEVKQKWASRLAKLRKD IRPECREDFVLSITGKKAPGCVL SNPDQKGKMRIDCLRQADKV WRDLVMVILFKGIPLESTDGE RLVKAACQGHVLCVQPHHIG VAVKELDLVLAIFYRERDAEQ SGSPRTGMGSDQEDSKPITLVT TDFQESFVTSQVFSVTELIQVSR TPVVTGTGPNFSLGELQGHLAY DLNPASTGLRRTLPTSSSSGSKR HKSGSMEEDVDTSPGGDYYS PSSPTSSSRNWTEDMEGGISSPV KKTEMKSPFNSPSPQDSPRLSS FTQHHRPVIAVHSGIARSPHPS ALHFPTTSILPQTASTYFPHTAIR YPPHLNPQDPLKDLVSLACDPA SQQPGPSWYLG*QRSSSLAPSPS SQESQGAAPAGPRFRWKIRV NKNTPADSQPGQKDKTHRRTH SGGKEKTKAE
19551	49919	A	19666	1	477	
19552	49920	A	19667	1	440	WTQDM/EGGISS/PVKKTEMAK SPFNSPSPQDSPRLSSFTQHHRP VIAVHSGIARSPHPSALHFPTT SILPQTASTYFPHTAIR/YPPHL NPQDPLKDLVSLACDP/SSQQP GP/SYSPPDTPANR/SFVGLGPR DPAGIYQAQSWYLG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, * =Stop codon, / =possible nucleotide deletion, \ =possible nucleotide insertion)
19553	49921	A	19668	2	1963	CPTGFEHGSPCARRTPTGRVSV TRCRRRAWGSLRVSVCGPRAQ LQAEVLQEEQGGVLCVIVMP LTPGRTPLRPRGRALCNGRGGV WGGGSGPRGLLPAQAPGDPEV CKFRFLDRCFPPYAGPSDL.SLR GRAVGPPSASLALL.TSRL.SGLQ DEFHPFIEALLPHVRAFAYTWF NLQARKRKYFKKHEKRMSKDE ERAVKDELLGEKPEVKQKWAS RL.LAKLRKDIRPECREDFV.LSIT GKKAPGCVLSNP.DQKGKMRRI D.CFRQADKVRWLDLVMVILF KGIPLESTDGERLVKAAQCGHP VL/CALKPQHIGVAVK/ENLDL YLAYFVRERDA*QSGSPRTGM GSDQEDSKPITLDTTDFQESFVT SGVFSVTIELIQVSRTPVVTGTGP NFS.LGELHAHLAYDLK.PASAGL TRTLSTTFSSGNKRYKAGSMEE YVDSTPWGDD*T*PSSPTSSSRN WTE.DMEGGISSPVKKTEM.DKS PFNSPSPQDSPRLSSFTQHHRPVI AVHSGIARSPHPSSALHFPTVTSI LTPDGPSPPTFPHTAIRYPH.LNP QDPLKDL.VSLACDPA/SQQP.GP LNGSGQLKMPHCLSAQMLAP PPPG.LPRLALPPATKPATTSE GATSP.TSPSYSPD.TSPANRSFV GLGPRDPAGIYQAQSWYLG
19554	49922	A	19669	332	551	ESWLGRGHQPPPGLFHSPKPS SGTAVLPAWRPPSPGPGAGDD ASPS*AGPGAGANPGA*QRS ASGEKGS
19555	49923	A	19670	1614	1673	
19556	49924	A	19671	72	227	EEFPMGHTA*WSCEKRATILQI QEW*IQQLAPCAWQSHRHST RAHESSHG
19557	49925	C	19672	1	604	
19558	49926	A	19673	653	889	VYPQT.NWKQNTGTRV.FIAALF TM.VKGENK*PSMGEW/KQM WSIHTMERHAAIKR.EIAQVYAT M*MKLK.SMLLLERNQT

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19559	49927	A	19674	75	1619	EVSIQAQTMTWTADEIAQLCYEH YGIURLPKKGKPEPSHEWTLA AVVKIQSPA\DKACD\TPDKPVQ VTKEVVSMTGTGKICIGQSK/M* RKNGDIL\NDSHA\EVIA\RRSFQ RYLLHQLQLAATLKEDSIFVPG TQKGVWKLRRD\LINVFFSSHT PCGDASIIPMLEFEDQPCCPVFR NWNANSSVEASSNI.EAPGNER KCEDPDSPVTKKMRLEPGTAA REVNTGAAHHQSFGKQKSGPIS PGIHSCDLTVEGLATVTRIAPGS AKVTDVYRTGAKCVPGEAGDS GKPGA\AFHQV\LLRVKPGRG DRTRSMSCSDKMAR\WTVLGC QGALLMHLLEPIYLSAVVIGK CPYSQEAMQ\RA\LIGRCQKVIS AL.PKGFVQVELKIL.QSDLLFEQ SRSAVQAKRADSPGRLVPCGVA AISWSAVPEQPLDVTANGFPQG TTKKTIGSLQARSQISKVELFRS FQKLLSRIARDK\WPHSLRVQKL DTYQEYKEAASSYQEA\WSTLR KQVFGSWIRNPPDYHQFK
19560	49928	C	19675	45	140	
19561	49929	A	19676	3	354	AKIKTGYSKREHINLGCMDMDFDI VGPSIRGALVLGYEGWLAGYQ MNFETAKSRVTQSNFAVGYKT DEFQLHTNVLLNLERTCFLTG PTPTPPPLSWLPGTTFSLTWAM TGRYTINSQ
19562	49930	A	19677	1	983	AARSAPLPGSAPCLRVAAPAVA ASEPAATSSSEQKMAVPPTYADL GKSARDVFTKGYGFLIKLDLK TKSENGLEFTSSGSANTETTKV TGSLETKYRWTEYGLTFTTEKW NTDNTLGTETV\EDQLARGT* SLTFDSSFS\NT\GKKNAKIKT GYKREHINLGCMDMDFDIAGPSI RGALVLGYEGWLAGYQMNF* DCKIPE*PQSNFWQLANKT\DEF QASR*M*ND\GTEFGSGSIYQKV NKK\LETA\VNLPWTA\GNSNTR FEIAAKYQ\WDP\DACFSKG\VN SSLIGLGYTQTLPKGIKLTLSAL LDGKNVNVA\GGHKL\GLGLEF QA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
19563	49931	A	19678	551	831	CHPSSHVLCAPASLSDHQWPP ALCPSSRPQ/PCALPWSGT.LSSR PQPCPTHPSGIEA*LCLPLVTLQ G*LPLPAPQHLVPPCPSTCTPTM LKL F
19564	49932	A	19679	47	980	VCQYCTARMADFGISAGQFVA VVWDKSSPVEALKGLVDKLLQA LTGNEGRVSVENIKQLLQCLVP GSTTLHSAEILAEIARILRPGG CLFLKEPVETAVDNNSKVKTAS KL/CSALTLS/SLVEEKELQREP LTPEEVQSVREHLGHESDNLLF VQITGKKPNFEVGSSMQLKLSI TKKSSPSVKPAVDPA AAKLWT LSANDMEDDSMDLIDSDELLDP EDLKKPDPA SLRA\ASCGEGKK RKACKNCTCGLAEEL/EKEKSR EQMSSQPKSA/CGNCYRGAMPS GCASCPYLGMPAFKPGKVLLS DSNLHDA
19565	49933	A	19680	29	1270	FPFWPAVFQVCYCTARMADF GISAGQFVA VVWDKSSPVEAL KGLVDKLLQAF/TPGNEGRVSV ENIKAAVAAILPTKNPSFGHYFV Q/CLVP GKAPLWHS A*DFWAG NPPGFLRPGWMFFFLKEPVETA VR*Q*AKWK TASKL/CSALTLS GLV/EKLKELQREPLTPEEVQSV REHLGHESDNLLFVQITGKKPN FEVGSSRQLKLSITKKSSPSVKP A VDPAAAKL/WTLSANDMEDD SMCFCGCSLTHRWPLEHV VQV E/IMMDQPKRTRVDTVFTPT PKFPRS PASHFSFSIKQKT/TRP VSLIALNTL/QDLIDSDELLDPE DLKKPDPSL LRA\ASCGEGKKR KACKNCTCGLAEEL/EKEKSR QMSSQPKSACGNCYLGD AFR CASCYLGMPAFKPGKVL LSD
19566	49934	A	19681	3	405	QDFGTRALAAVQIKNGGSWWC PPVSLAAGVGRPQLGRPYVRV APHGQVIGLSFAMWKTLTFFR GASPGVGSQAMLKCV A*SPHH WRARRDPEFIAYPHLR/IRTKP FPWGDGNHTQYITPHVNP L SLATED

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
19567	49935	A	19682	2	450	VNKAGGLIYQLDSYAP/RAEAE KTFSYPLDLLKLHDERVLVAF GQRDGI RVGHAVLAINGMDVN GRYTADGKEVLEYLGNPANYP VSIRFGRPRLT SNEKLMLASMF HSIKFVVLADP/RQAGIDSLLRK IYEIYSDFALKNPFSYLEMP
19568	49936	A	19683	1	2034	
19569	49937	A	19684	202	453	RRLWRGSCPRCGGKARDGMG VRGR/YSEG/REKV*FGGPPRGS TWPLCGRWRP/PA/PSA/PLRWS AMCPNTSDAAGACAAAVRCG
19570	49938	A	19685	269	326	
19571	49939	B	19686	98	562	
19572	49940	A	19687	1	2223	
19573	49941	A	19688	374	1107	IPVSRQGS DWRFFSVYVVKNA GGLIYQLDSYAPTGLRLEKTFAS YPLDLAGSS*HDERVLVAFGQR GRHPEWGHAVLAINGMDVNG RYTADG/KEVLEYLG*PLLNYP VSIRFGRPRLT SNE/KLMLGLP CFHSLFAIG/SQACLPGTREASR HLKILGRQDTFKLHVCYQTLTG IKFVVLADP/RQAGIDSLLRKI YEIYSDFALKNP/FSYLEMP/IR CELFQDNLKLALEVAEKAGTF
19574	49942	A	19689	119	288	ALHLNSSDVHQKLLPVQSLKKS *GRHRNNTCNQRVHA/SSTSRE FFTCLNKDNDILKP
19575	49943	A	19690	92	317	KSVGPNFPLPSGNMNE DN*M H*HPFSSVTQAFRLRVLQSIQR PL*TFNPSSSLFSSISGQSNFPL GVAVLRP
19576	49944	A	19691	27	389	NFKTLKNN*YK*MCSQEIKLS *KLIRFWYIEHAFFPWAHGVVF CVAQEFC LPTVLLPVPRLLIM KDMVRRILQELRHTEQVQRAYA LNCGE GATVSYEIQIRVLR EFG LADAAEELLQN

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19577	49945	A	19692	313	2255	KTPQVQQPFPRQTGAAGAGAP SGRSGERAAGRAGPSGGSGGG QDSAHAGEAYVRGILLRKTFTQ CLKDYFLTYYTSSKVVPVKVPC RQVLTDKCSLPRSSHRNARTV SNDFPRKSCSRERCTHCMRPPE GRRPPNGNMNSWKWPSGDESK WRRGEPGAVPEPEPLTGEERAA AAAVGGGWPGVLAPVRTAVL VAAAAEATAAVPAAAAAAGG ASGHCHNPVMQGRNLSHRFLL PLHHSPLYQFGTSSYSQQGYGCE SKLYSLDHGHEKPDKKKRTS GLATLKKKFIKRRKSNRSADHA KQMRRELLSGWDVRDVALVE EYEGTSALKELSLQASLARPEA RTLQKDMADLYEYKYCTDVDL IFQETCFPVHRAJLAARCPFFK/I TAFFLTRVWGRDNNGHQYSW Y*YAHVFCFVTLPLYRRVWEW EDSRFQNVLDLVQLSEGIWEHQI PLM*DMRGTLI/DMCYDYDVVL SFSSDSELVEAFGGNQNCDEE LKAHKAVISARSPFFRNLLQRI RTGEEITDRTLRTPTRIILDESIIP KKYATVILHMYTDVVDLSVL HCSPSVGSLSVQALVAGKPN MTRAEEAMELYHIALFLFENM LAQGSCWECIPNDEANQEQRS EGSRKWAPTREGSKGRSHASA
19578	49946	B	19693	4	3923	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19579	49947	A	19694	1	2154	MEYYAAMKTKEIMSFALTWIE LEAIVLCELTHVLSSELMQKQKT KYHMLSLGSPVPTFALWNFDV AQDFHHFIENARSSQCRGRPRM TGAGAGAPSGRSGERAAGRAG PSGGSGGGQDSAHAGEAYRVR GILLRKTQCLKDYFLTYYTSS KVVVPVKPCRQVLTIDKCSLPR SSHRNARTVSNDFPRKSCSRER CTHCMRPPEGRPPNGNMNSW KWPSGDESKWRRGEPGAVPEP EPLTGEERAAAAAVGGWPGV LAPVRTAVLVAAAAEATAAVP AAAAAGGASGHCHNPMVMQG RNLSHRFLPLHHSPYQFGTSS YSQQGYGCESKLYSLDHGHEK PQDKKKRTSLATLKKKFIKRR KSNRSADHAKQMRLLSGWD VRDVNALVEEYEGTSALKELSL QASLARPEARTLQKDMADLYE YKYCTDVLIFQETCFPVHRAI LAARCPFFK/ITAFFLTRVWGRD NNGHQYSWY*YAHVFCVTLPL LYRRVWAKEDSRFQNVLDIVQL SEFGTPNSLSDVDMRGLFDYM CYDDVVLFSFSDSELVEAFGGN QNCLDEELKAHKAIVISARSPFF RNLLQRRIRTGEEITDRLTRPT RIILDESIIPKKYATVILHMYTD VVDLSVLHCSPSVGLSEVQAL VAGKPNMTRAEEAMELYHIAL FLEFNMLAQGSCWECIPPNDIA
19580	49948	A	19695	1	163	
19581	49949	A	19696	1	207	
19582	49950	A	19697	1	579	PTRPGQAGSSSAMAQRLAKR VL/SKLQSPSRARG/PCAGSPGG LQK/RGHARVTVKYDRPSLQR RLDVEKWIDGPLEGLYRR/QEA D/MPMRSNIDELLE/LESEEEERS RKIQGV/LRDS*KSCGKPVEDFI QELLAKLQGLHRQ/PGLRQPSPS HDGSLSP/LDARTASPLTLA LFPGPERRPALLCVLSCL
19583	49951	A	19698	2	151	PPSPPLPPPLPAPSLPLSLPSF DLQPPVLDLTGV/LF*LCKRKI SVS
19584	49952	A	19699	2	310	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19585	49953	A	19700	1	688	LTWMTERVDFDTALLPLEPLPP GTLPPQSPPTPPDEAMASLLKK ELEQMEDFFLDAPLLPPSPPL PPPLPPAPSLPLSLPSFDLPQP VLDTLDLAIVCRNEAGQEV GMPLPPPPQAPSFLPPQPSR WGPLTHIPGQPTRGGPAKQKEE RPRNKSAALKVTPSGKRARG*S PWRAKSGLEGTEFASLKERA\ ESVEREIYVKDILLIEVYKARS QRTSC
19586	49954	A	19701	3	902	AAMATPARPGEAEDAERPLQ DEPAAAAAGPGKGRFLVRICFQ GDEGACPTRDFVVGALILRSIG MDPSDIYAVIQIPGSREFDVSR SAEKLALFLRVYEEKREQEDC WETFGGAGGEASPA*RRSSSSS GTRRWTRWTL*LGSSATATCW PCGESDRQVLDLD/LGSTNARS SCARGRAGSGTCQGPSSWGPR G/CYSWYKGPCTCFKCGSRTH MSGSCQDRCFCGEEGHLSPY CRKGIVCNLCGRGHFAQCP KAVHNSVAAQLTGVAGHLNTR LPARVNTQASLLKCPKLF
19587	49955	A	19702	1359	1981	QSPFNDTLPGVPVSA*LHSLPPE HHPKSG*GVAKSPPVYPAGILL VCNNCAAYRKLLAQTPSVRK WALRRQNEPLEVRLQRLERER TA/KKSRRDNETPEEREETDEQ RARRLQRDREAMRLKRANETP EKRQARLIREREAKRLKRLLEK MD/MMLRAQFGQDPSAMAAL AAEMNFFQLPVNGVELDSQLL GKMAFEVQNSSSLH
19588	49956	A	19703	1	1875	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v-possible nucleotide insertion)
19589	49957	A	19704	1	673	MSAKDGTCTLQDCMYKDVQK DWPGYSEGQQLLKRVLVRAH NTQRQRQNERSDTRPCQRAAP RRFSHGTRRGTLPLASPDRAARA PRTGHCRTQRRDLRTGGGFPL TGAWAMLADWIHEGTPSRGRS DNDEPSAGSVGGLRQHGPGR APKLTTTKVKALASPLGQKIA ALCLGLTAQGLNIMDNPGSLAI HVHPDSVLTTRKTNPCTHIWGFT QREPLVANMSAKDGTCTLQD CMYKDVQKDWPGYSEGQQLL LKRVLVRAHNTQRQRQNERSD TRPCQRAAPRRFSHGTRRGTLPL LASPDRAAPRTGHCRTQRRDL RTGGGFPLTGAWAMLADWIIH EGTPSRGRSDNDEPSAGSVGGL R/HAWPRTKSPKANNH*SESTG QPGAGPKNCSPVLGAYSPGPQH HGQPLPGHTCP/SRTQC*PGRP TPAPTSVSLRGNPLWWPT
19590	49958	A	19705	1088	2273	SPCLLTGGHLPADTSYRRAPAG IWQVPLWDEASQRKE*YQHQQ KKMSTQKPHPKDHNSSPAREQ/ SSMENKFHELTEVGFRKITSLE KNINDLMELKNTARELREAYTS IKSRIDQAKESIEIEDQLNEIKC EDKVREKRMKSNKQNFQEIWD YVKRPNLRLTGVPESDRENGTK LENTLQEIHQENFPNLAQANIQ IQEIQRATAQRQSSSRATPIHIVR FAKFEIKEKMLRAAREKDISM QKINKDIQDFNTVLQVDLIHV YRTVHPKSSEYTFFSAPHHTYC KTGHIIGSKTLLSKCKRMEIITN TLDYSIAIKLELRICKLTQNHHT TWKVNTLLVNEY

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19591	49959	A	19706	318	873	AYELTPEPSPLPVFPVSADGSTT HPLADKRKASPVPEQHEEHLPA RPVTQRCLTYPPNITTASEFGP ATGFRARRSGRGSTVCCNPGCY PRARPEPEPRGTPPSVSAPRAAQ EAPARQRAVGPVLADTV/SPAP RGKRDISPLFGNAHSAPKPSLD LWAPP* AAGRRGPQQA* DVTE DTQQQQWSAMAVGGTAKWM AALGRFLVTYVEVEGVKLQTF TVTTLTQSFKYSLSKYLQQQPL LSRRTIYPTFYLLSLRLNRAFK LNAAEAKPMSSPQNVLVFLCFL SLQMAAPPRLQTKGKQAQCQS STKSTFQGRSLRGVSPTLSPTS QQPRNLDQQLASEQGEVGEAP LCAVIQGVIPVLGRSRSREEHPP VSALPGLHRKRQRDKEAGPVL ADTVPFRPHAGKGTFLRCLLET TRRAPNPRWTFGLPLRKLQGA VAHSRPEIRTHSVPNRT
19592	49960	A	19707	1	690	DQDMTSSDIPVRLLEGLWLP*IF IGTFKAFDKHMLILCDCDEF KIK*GVDCGGRRLLEDGNGLSG WAKQ*SLVSMTVEGPPPKDVS QSRKP/CWRRGGPTVSQALC*IL YPSWGSHPGSCRTCWASPWG WRAIPTGEELGKGYHLLVAKIK DKGEG*FSNPVPTWPWGSSPT YGPRSTPSR*GAHKETSAN**K MPSWINDEI*PPMGMPPPGMRP PPPGMRGKCLQW

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19593	49961	A	19708	1	1348	MVFWARPTLLCAALGLGAL YTATPAPTVAKRGGQTAQALS SEGASPKPWVLRHGIEPCKQSY WEVRETEQSPGVSEKAAAPVR GLEIKLPSPWDKAPEGGGGCGH SFSRLKCSFMPVLKRAVDLPAQ RSSPANGQTACSSGLAPVLPD WEIPPSKGRQTPYATGELRLAS DGCPSGTKLPEEGTDSNLCCSA SSAESNNININININKDAHGKT PSKGPOHQRSKLDKSMKTRKN HHKNAENSKNLNASSPPKDHN SSTAKEQNWTENEFDELTEVGF RRRVIANSSKLKEHVL7TQCKEA ENFEKILEELLTRITSLEKNINDL MELKNIAQEHREAYTSINSQID QAEERISEIEDKLNEIKREDKIR GKRIKRNKKSLQEIWDYVKRA NL*LIIVVPLNKITSPTSETLST STNMSRSTLSCLLSSFCSPASCT ATSAALF
19594	49962	A	19709	718	1138	GGRAAEGSQPPVAEPRCSRGAR ALPLDPTSWRQPS/APQAAP*D VELPASPSAPFAVLLSKPRLSQN KPKSPFSVASP*HGDKRQPPSRH LI*IPHLSSRAPVHS/PLGWPSNR K/HKHLRPDTAHAPAEGPLNY VRKQKQOS
19595	49963	A	19710	5	760	RAAACGGAAAPGRKRCAPGRKR CGPRRKRLGPPTLGQRPRQPS QQLRKPRRRRGSPGLPKSSPLP SSTGKTGWSTRGRSVRPPVITS RCCPPGHPCSRRAPSCSTARAPLP PT*PPTTAPCRASPPAPRPPRRPR PPPGTRSPTRSGRCRWTRSGAG TSRCSWRAGPGTAPAAAGARS RPGAPGVSAAVPCAACSWMT SAPEVRAASSPGTPSRGSGGRS HPPCSRGLPTTGATTAPAEAPG CWSCRRRS
19596	49964	B	19711	180	300	
19597	49965	A	19712	249	700	RQDPVSGGQSCPASCPSLWAA ARVWLGGQIPAPRAR*CPVCSSC PGPGAPEDTPEAGGCGCSCRC CLRTQEPAPLQPPHPPMAQTP REEVGRRGWTPGCGTDPCLW GLRLLCPLWDPHRSGRTPWAQ VQRDTTETKAQRGLVRCQRGC
19598	49966	C	19713	273	485	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / = possible nucleotide deletion, \ = possible nucleotide insertion)
19599	49967	A	19714	35	779	VRPPSHVTADSGRSPLSLTYLPL QEPGDMAAAVPRAAFLSPLLPL LLGFLLLSAPHGGSGLHTKGAL PLDVTIFY/KDYGDKLNMELSE KYKLDKESYPVFYLF RDGDFEN PVPYTGAVKVGAQRWLKGGQ VYLGMPGCLPVYDALAGEFIR ASGV EARQALLKQGGDNLSV KETQKKWAEQYLIKIMGKILDQ GEDFPASEMTRIARLIEKNKRSC KKAVCDFPGFGGGRVGRVNL AVSPLWNIRG
19600	49968	A	19715	2	253	
19601	49969	A	19716	494	1443	LAVPRPAYGPRSPGSLRIPVPG LHLLNLNVWSRGSAALHTKG ALPLDVTIFYKVIPIKSKFVLVK FDQYYPYGEKQDEFKRAENSA SS\DDLLVAEVGISDYGDKNLM NELS\EKYKLDKESYPVFYLF DGDFFIEPSSHYTGGSR\LGAIQ RWLKGKGVYLG DGLVCT V*LTLAGEFIR\ASGV EARQAP LEAGAQDNLSKCERRLRKKW AEQYLIKIMGKILDQGEDFPAS EMTTESLGLIEKN\KMSDGKKE EL\QKSLN\ILTALPRRKGAER GAVNKA VCD FPRVWWEYGRG ELTLAVSPLWNIRG
19602	49970	A	19717	286	332	HHHHHHPHYHHHHHPHYHHHH HPQYHH\HHPHYDHHHRHQGD HHGQLQYDDDHQPQCHQHDH LRCEHQHYIQ*WLINNLRASRY KPLN\NIMLVFAAEMIVLVALGL MVVVVLELTVVVALTMTVVVI VRMMGGDIGDDGGGGSGDDG GGGSGDDGGGVWQFFDSMS KNDSHPTTTTITPTTTTITIRA EQFTILTWKPVVSSQKNTSSFR
19603	49971	C	19718	1	546	
19604	49972	A	19719	1	90	
19605	49973	B	19720	217	951	
19606	49974	B	19721	67	1708	
19607	49975	B	19722	218	3267	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
19608	49976	A	19723	1	634	LGRLSFPRPEQPDGPHRAHPSPSP PRPRRPHARGRRGPRRRHH/YHD TGANRAPEVRPPCPES/SPVGVA AFEPNGLRGQQFSPRSPGAPKG L*PTPPSASSPKPREPSALGRPC CRCEESRFLEHRNSNPRVKDSR QARGRHAEFHGRTGVFERRRS RDHLPTHFPA SVRWKLSWCA RKNGLSGLRLCHGSQHFSGYSN RKVGTESLNQVWE
19609	49977	A	19724	3	1090	
19610	49978	A	19725	1	609	
19611	49979	A	19726	23	636	FSYLPGPSHG TWGLWELQFK MRFGVCRHLMEDSMDMDVSP LR/PQNYLFSCELKADKDDHFK VDNDENEHQLSLRTPTVSLGVF EITPPVLLWLKCGSGPVHISGQ HLVAVEEDAEEDEEEDVKLL RISGKTKTFMATNGKEYKHVKI SSEKSLDNKYKTRTPGFQAFGF EDLHPWPLGSAFYLSLRTVTP VFLVLRLLDFD
19612	49980	A	19727	1	830	MEDSMDMDMSPLRPQNYLFGC ELKADKDYHFKVDNDENEHQL SLRTVSLGAGAKDELHIVEAEA MNYEGSPIKVTLATLKMSVQPT VSLGGFEITPPVVLRLKCGSGPV HISGQHLVAVEEDAEEDEE DVNRVLFMKP/KRQGPQAYVR GFGVQLEIGSH*DPEQQF*RD SAQPSLATPSTPHLQALLCLSGQV LRLPLWGQRL*GLQGLLPQHP EEHGVHVSPGQELHHQQGDPE PLPVLPTAEVL*SGHVQGVCEK RPKQEEEGGAQARVL
19613	49981	A	19728	1	684	
19614	49982	A	19729	3	535	DSVLRGCSLEQRSFISVRLLSYL SACRHPMEDSMDMDMSPLRPQ NYLFGCELKADKDYHFKVDND ENEHQLSLRTVSLGAGAKDEL HIVEAEAMNYEGSPIKVTLATL KMSVQPTVSLGGFEITPPVVLRL LKCAGSGPVHISGQHLVYRRK HQELQAMQMDCRALSTS*ASS APRPS
19615	49983	B	19730	1	2268	
19616	49984	A	19731	198	472	AHDIGCEVSPPLVLEVARDEGP AHRPRFHS*SSHCSHWGTSQRA APPCHPCIQTTW/PGAVTGLG G*PKTRSGPGKDRSSGAASSFP GGRV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19617	49985	A	19732	92	2049	LTALPPAVSPGGHSSSSSRRTIS GIT*ELQR/LLQAVVPGPWQED VADAEECAGRCGPLMDCRAFH YNVSSHGCOLLPWTQHSPTTR LRHSGRCDLFQEKGEWGYMPT LRNGLEENFCRNPDPGDPGGPW CHTTDPAVRFQSCGKISCRVAA CVWCNGEEYRGAVDRTESGRE CQRWDLQHPHQHPFEPGKFLD QGLDDNYCRNPDGSERPWCYT TDPQIEREFCDLPRCGSEAQPRQ EATSVSCFRGKGEGYRGTAANTT TAGVPCQRWDAQIPHQHRFTPE KYACKDLRENFCRNPDGSEAP WCFTLRPGMRVGFYQJRRCT DDVRPQDCYHGAQEYRGTVS KTRKGVQCQR/WSLE/TG*DYP ATTSLPLPPRFTTSEPHAQLEE NFC/RDPDGDSDHGPWCYTMDP RTPFDYCALRRCDQVQFEKCG KRVDRLDQRCCKLRVAGGHPG NSPWTVSLRNWQQQHFCGGSL VKEQWILTARQCFSSCHMPLTG YEVWLGTLFQNPQHGEPLQR VPVAKMLCGPSGSQLVLLKLE RYVDNLGGWTKCEIAGRGETK GTGNDTVLNVALLNVISNQEC NIKHRGHVRESEMCTEGLLAPV GACEGDYGGPLACFTHNCWVL KGIRIPNRVCARSRWPAVFTRV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
19618	49986	A	19733	2	2296	HSAGQSRSPSNDFFQVLRGTQLQH LLHAVVPGPWQEDVADAECA GRGCLLLSRAFHYNVSSHGCGQ LLPWTQHSPHSRLWHSGRCDLF QEKGEWGYMPTLRNGLEENFC RNPDPGDPGPPWCHTTDPAVRF QSCGIKSCRVAACVWCNGEY RGAVDRTESGRECORWDLQHP HQHPFEPGKFLDQGLDDNYCR NPDGSERPWCYTTPQIEREFC DLPRCGSEAQPRQEATSVSCFR GKGEYRGTTANTTTAGVPCQR WDAQIPHQRHFTPEKYAC/KVR WAGGRALGRAAAGETGGG*SR A*GWRLAG*G*VERLLRDLREN FCWNLDGSEAPWCFTLRPGTR VGFCYQIRRTDDVVRPQDCYH GAGEQYRGTV/SKTRKGVQCQ RWSAETPHKLQ*VPGAPGPAR ALTLGRHALMSGTRAWKWLRL LSLPRFRSRRLGSRLTSEPHAQ LEENFC/RDPDGDSHGPPWCYTM DPRTPFDYCALRRCAADDPPSIL DPPPDQVQFEKCGKRVDRLDQ RRSKLRVAGGHPGNSPWTVSL RNR*GTTACLPQRGAEEVVSVV MPLGAGNLSLPPEVLARRWQV *HLSQESVPCPNPPLL*QQQHF CGGSLVKEQWILTARQCFSS/CE PPLCLGTQSHPTFPFPQAS*QVS LGATD*ESQMT*QSFSPSHMLPL TGYEVVLGTLFQNPQHGEPL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /possible nucleotide deletion, \possible nucleotide insertion)
19619	49987	A	19734	727	3012	PAPTHAHSAGQSRPLNDFQVLR GTELQHLHAAVVPGPWQEDVA DAEECAGRCGLMDCRAFHYN VSSHGCQLLPWTQHSPIHLRR SGRCDLFQKKDYVRTCIMNNG VGYRGTMATTVGGLPCQAWS HKFPNDHKYTPTRLNGLLEENFC RNPDPGDPGGPWCYTTDPAVRF QSCGIKSCREAAACVWCNGEY RGAVDRITESGRECORWDLQHP HQHPFEPGKFLDQGLDDNYCR NPDGSERPWCYTTDPQIEREFC DLPRCGSEAPRQEATTVSCFR GKGEGYRGTTAGVPCQR WDAQIPHQHRFTPEKYACKDL RENFCRNPDGSEAPWCFTLRPG MRAAFICYQIRRCTDDVRPQDC YHGAGEQYRGTVSKTRKGVQC QRWSAETPHKPQFTTSEPHAQ LEENFCRNPDGSDHGPWCYTM DPRTPFDYCALRRCADDPSSIL DPPADQVQFEKCGKRVDRLDQR CSKLRVAGGHPGNSPWTVSLR NWQGGHFCGGS LVKEQWILT AR/QCFSS/CHMPL/TGY*GMVG ATFFQNPQHGEPSL/QRVQ*AK MLCGPSGSQVLVLLKLEERSVTL N/HRVWALHILP/PEWYVVPPT KCEIAGWGET/KGTG/NDTV/LN VALLNVISN/QECNIKHRGRVRE SEM/CTEGALLAPVGACESDYG GPLACFT/HNCWV/VLEGIIPN/R
19620	49988	A	19735	66	234	WCSAWHSWLPSPSGPAASYP PAACRSAPQWPD* [*] R* [*] CPRTHR RRSPWRAPWHCP
19621	49989	A	19736	3	500	GRGGGVRRCARPAPGRPPAA ARRRGDQRGRLGR/HVPGKTF CCGICGRGFRRET/LKRHERIH TGEKPHQCPVCGKRFRESFHLS KHHVVHTRERPYKCELCGKVF GYPSLTRHRQVHRLQLPCAL AGAAGLPSTQGTGACGPGAS GTSAGPTDGLSYACSD

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v-possible nucleotide insertion)
19622	49990	A	19737	899	2348	GRRRGGGRCWRGCGSQSGPERF SCATCGQSFKHSW/DLVTHKYV HLMALLPPSCEAVAPRGWRRSC SCPECCRVCELSSAA/RSATAR CFRRRSPIIAQAPAGPQVPQDW RSPRARIRLPVGPVGMFAFPTSA SGKAWPSLRVSPHAFWKYHT SPPAMQPSGLWASVPACAP*K NIPSPTIWQRLAFSGGLPICWV ENHGPAATSSQWLVSGPRSPHLL S/RAEHPFSRPLPRWVATAERQ RRPSGKRTNFPFASPAPPGA/G PEVSVPPAGALPGEALGPARDL WPCSSWT*AGLPALG/DTGGGE APAP/AAAAPESDITLYQCDCG/ TTFASAAALASHLEAHSGPATY GCGHCGALYAALAEHRRV SHGEGGEEAATAAREREPAS GEPSPSGGRGKIFGCSECEKLF RSPRDLERHVLVHTGEKPFPC ECGKFFRHECYLKRHLLHGTE RPFCHICGKGFTLNLNRHLK LHRGMD
19623	49991	A	19738	2	358	
19624	49992	A	19739	635	2441	LKAIKRHPFFVTIDWNVSCMPQ SPPPFKPAVGRPEDTFHDFEPT ARTPTGVCHSGSLYNAHHLFR GFSVASSLIQEPSQDLHKVPV HPIVQVTVFACSGFTDGYEIKE DIGVGSYSVCKRCVHKATDTE YAVKVRQAC*VSSLVFPAGTG APGIGEYSGKLVSILCAQDSP HNLLPQRKVEKPSLSILVGESRS HVDKGQEVLDILEMGMEFFIE FLVSPLATG*CFPMARSPCMGC SLSVCTAL*GQPLQGNTPTFKY QQVTWPQAKPPTPTAVLSPETA NVTSPQEQTRCLLKDRWLYPV VRNSSTRGPEEIEILLRYGQHP NIITLKDVSGPRATASVMELM RGGELLDRILRQRYFSEREASD VLCTITTKTMDYLHSQGVGAMP GAAFNILYRDESGSPESIRVCFD GFAKQLRAGNGLMTPCYTAN FVAPEVSIPRLQTQACDIWSLGI LLYTMLAG*AVTSNRCHDTPPE ILARIGSGKYLSSGNWDSISD AAKVSTCPVALDPHQRLTAM QVLKHPVWVNREYLSPNQLSR QDVHLVKVPAGAVRTEWWE WDLNRTQPAPRLEPVLSNLAQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19625	49993	A	19740	144	1143	REAGRCSAGVGGRRRRRRK GAASRARLPFSLSIMDPSSLRER ELFKKRALSTPVVEKRSASSE/S SSSSISKKKTKVE/HGSSSGK QNSDHSNGSFNLKAL/SGSSG/Y KFGVLAK/VNYMKDTGIQRGD THPLTLDENLDETQHLDIGLQQ KQWLMTEALVNNPKIEVDGK YAFKPKYNVRDKALLML/LD QHDQRLGGILLIEDIEALPNS QK/AVKALGDQIPIC*SGPVRR KILF/FNDKSCQFSVG*RIFRKL WEECQLVDSHGTEEK/VEEYLE ADRVFSSHARESG/PK/KVGPYS RRKGKSPAFTRKKPTFLRTSLT NHLAWNC
19626	49994	A	19741	677	1590	AHPHSPRRTLERQARISGAGR SSPNAANRGSA PPSRRLASFT AGSA/GRPA*SSPCSGPWTAVSA PRSPGPRGGRRPPSPGRRRPPCCS VFSGGASPPSARVSSPSGSCSAS PPAAPAAWSLRGCGCWPG/VW EVHVNTGDSVVAAPAAWGRS AACGPNLGGSHPRAGRRAH RCGHPWSPRAPRPSCCGRSPR PGPPGASGCPRAPRPPTPASRS GRPCSWRRARAAGWPRGWG SSAGGCRRGSGRREWCPGTA RGSPAAGVSRWTAPRCRHRS DASASGTPARFPGAGRKGRTL WQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, * = Stop codon, / = possible nucleotide deletion, = possible nucleotide insertion)
19627	49995	A	19742	754	2179	SKMSRLEAKKPSLCKSEPLTTE RVRTLSVLKRIVTSCYGPSGR LKQLHNGFGGYVCTTSQSSALL SHLLVTHPLKILTASIQNHVSSF SDCGLFTAILCCNLIENVQRLGL TPTTVIRLNKHLLSLCISYLKSE TCGCRIPVDFSSTQILLCLVRSIL TSKPACMLTRKETEHVSALILR AFLLTIPENAEGHILGKSLIVPL KGQRVIDSTVLPGLIEMSEVQL MRLLPIKKSTALKVALFCTTSL GDTs*IPGEGTVVVSYGVSLEN AVLDQLLNLGRQLISDHVDLVL CQKVIHPSLKQFLNMHPHAIIDR IGSDSD/VEPLDLKWTGTQPIGS LGSICPNYSYGSVKDVCTAKFGS KHFFHLIPNEATICSLLCNRND TAWDELKLTCTALHVLQLTL KEPWALLGGCTETHLAAYIR HKTHNDPESILKDDECTQTELQ LIAEAFCSALESVVGSLEHDGG
19628	49996	A	19743	1	652	LMPKPGDRDTTKKNFRPISLMN INAKILNKILANQIQQHKKLLN HDQVGFIPGMQGWFNHKSINV IHIIKRTNDKNHMIISIDAGKAF NKIQCFMLKTLNKLNIHGYYL KIIRAIYD/KPPANIILNGEKLEA FPLKTGIRQG/CPLLRNIV/LEVL ARAIHQEKEIKGIQSGNEEVKLS LFADDMIVYLENPVSAQNLLK LISNFSKVSQYKISVQ
19629	49997	A	19744	1	834	MGDFNTPLSTLDRSTRQKVNK DIQELNSALYQVDLIDYRTLHP KSTYTFFSAPHHTYSKIDHIVG SKALLSKCKRTEHITNCLSDHSA IKLELTIKKLTQNRSTTWKLN LLNDYWKYKQPSENKHLVYAN KLENLEEMDKFLDTYTLPRLNQ EEVESLNRPIRSEIEAITNSLPT/ KKSPGPDGFTAIFYQMLEVLA RAIRQEKIKGQLVKEEVKLSL FADDMIVYLENPVSAQNLLKLI GNFSKVSQYKI/NVQKSQAFLY TNNRQTESQIM
19630	49998	B	19745	1	1521	
19631	49999	B	19746	1	1461	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19632	50000	A	19747	1	2347	MELKTKARELHDECTSLSSRF DQLEERVSVMEDEMNMNLP TKKSPGPDGFTAIFYQRYKEELVP FLKLQFQIEKEGILPNSFYEPSII LIAKPGRDTTKKENFRPISLMNI NAKILNKMLANQIQQHIKLLIH HDQVGFIPGMQGWFNIRKSINV IQHINRTKDKNHMIIISIDAEKAF DKIQQHFMKLTKNLKLVLEVLA RAIRQEKEIKGILGKEEVKVS LFADDMIVYLENPTVSAQNLLKL IGNFSKVSQYKINVKQSQAFLY TNNRQTERQIMSELPFTIASKRI KYLGIQLTRDVKDLFKENNKPL LKEVKEDTNEWKNIPCSWVGRJ NIVKMAILPKVIYRFNAIPIKLP MTFFTELEKTTLKFIWNQKRAC IAKSIFSQKNKAGGITLPDFKLY YKATVTKTAWYWYQNRDIAQ WNRTEPSEIMLHIYNYLIFDKPE KNKQWGWKDSLNFKWCWENWL AICRKVKLDPFLTPYTKMNSR WIKDLNVRPKTIKLEENLGITI QDIGVGKDFMSKTPKAMATKA KIDKWDLIKLSFCTAKETTIRV NRQPTTWKIFATYSSDKGLISR IYNELKQIYKKKTNNPIKKWAK DVNRHFSKEDIYAAKKHMKKC SSSLAIREMQIKTTMRYHLTPV RMAIIKSGNNRKIQ/GGIWCD RIL*R*TTTCRVAKIEQSL*RRI/W KRLQRTLSPVLDV*PPMF*AS
19633	50001	A	19748	1	1818	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19634	50002	A	19749	1	1725	MELKTKARELREECRLSRSCD QLEERPNIIRLIGVPESDGENGT KLENTLQDIHQENFPNLAQVFN VQIQEIQRTPQRYSLRRATPRHII VRFTKVEMKEKMLRAAREKGR VTLKGKPIRLTADLSAETLQAR REWGPIFNILKEKNFQPRISYPA KLSFISEGEIKSFTDKQMLRDFV TTRPALQELKKEALNMERNNRS WFFEKINKIDRPLARVIKKKRE KNQIDAINKDKEDITTNPTETI IREYYKHLYPNKLENLEEMDTF LDITYTFPRLNQEEVESLNTSITG SEIVAIIS/NSIPTKKSPGPDGSTA EFYQ/MLEVLAIRQKEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIVSAQNLLKISNFSKVSGYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASKRIKCLGIQLTRDVK DLFKENYKPLLKEIKEDTNKW KNIPCSWVGRINIVKMAILPKVI YRFNAIPKLPMTFFTDLEKTTL NFIWNQKRARITKSILSQKNKA GGITLPDFKLYYTATVTKTAW YWYQNRWYQNRDIDQWN RTEPSEITPHVNYLIF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,440,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19635	50003	A	19750	1	1719	MHNTDGNRFLSHWGYRQALSI SKPASASLHPSSKTKPLGTQSKT VVAKRRNREHGKKERSSSPAME QSWMENDFDELREEGFRRSNY SELREDIQTKGKEVENFEKNLE ECITRITNTEKCLKELMELKTK ARELREECRSLRSRCDQLEERR KQERSKIDTLTSQKLELEKQEQ THSKAGRRQETKIRAEKKEIET QKTLQKINESRSWFFERINKIDR PLARLIKKKREKNQIDTIKNDK GDITTDPTETIQTIREYYKHLYA NKLENLEEMDTFLDITYTLPRLN QEEVESLNRPTGSEIVAINSLP TKKSPGPDGFTAIFYQRYKEEL HINRAKDKNHMIIISDAEKAFFD KIQQPFMLKTLNKLVLVLEVLARA IRQEKEIKGIGLKKEEVKLSLFA DDMIVYLENPVSAQNLLKLLS NFSKVSGYKINVQKSQAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTRDVKHLFKENYKPLLK EIKEDTNKWNIPCSWVGRJNI VKMAILPKVIYRFNAVPIKLPM TFFTELEKTTLKFIWNQKRACIA KSILSQKNKAGGITLP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19636	50004	A	19751	2	2133	WRRYQANGK*KNK/QKKAGV VILVSDKTDKPTKIKRDKEGH YIMVKGSIQEEELTVLNIYAPN TGAPRFMKQVLRDLQRDLDPH TTIMGDFNTPLSTLDRSARQKV NKDIQELNSALHQADLINIYRIL HPKSTEYTFISAPHRTYSKIDHI VGRKALLRKYKRTIITDCLSD HSAIKLELRKLTQNSSTTWK LNNLLNDYWIHNKTKAEIKM CFETSENKDTTYQNLWDCTCKA VCREKFIALNAHKRKQERSKID TLTSQLE/LEKQEQTHSKASRR KSRNRG*IPGHIHPPKTKPGRI* VPE*TNRRV*N*GNN**LTNQK KFRTRRHSQILPEHSAGSSGQG NQAGERNKGY SIKRKGSIQVVP CR*HDCIFRKP HHLSPKSP*AVK QLQQSRLIQNRAKITSSPIHQ* QTNREP NHE*TFIHNC FKENKIP RNPTYKGCEGPIQGELOTTAAQQ NKRGHKQMEHSMMLMDRKNQ YHENGHSAQGNL*IQCHPHQAT NDFLHRIGKNYFKVHMEPKKSP HCQVNP KPKEQSWRHHA* LQ TILQGYSNQNSMVLVPKQTYRP MEKNRGLRNNTTHLRPSSL*QT *QKQEMGKGFPI**MVLGKLAS HM*KAETGSLPYTLYKN*FKM D*RLKC*T*NHKNLRRKPRQYH SGHRHEQGLYV*NTKSNGNKS QN*QMGSN*TKELLHSKRNYH
19637	50005	A	19752	1	1314	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
19638	50006	A	19753	1	1998	MVKGSIQEEELTLHIYAPNTG APRFKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQAALIDIYRTFH PKSTEYTFFSAPHHTYSKIDHIV GSKALLNCKRTEIITNYSDDHS AIKLELRINKLTQSRSTTWKLN NLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKA/PL ARLIKKKREKNQID/TIKNDKGD ITTDPTIEQTTIREYYKHYANK LENLEEMDITLDTYTLPRLNQE EVESLNRPTGSEIVAIINSLPTK KSPGPDGFTAEFYQRYKEELVP FLLKLFQSEIEGILPNSFYEAII LIPKPGRDITTKENFRPISLMNI DAKILNKILANRIQQHIKKLIHH DQVGFIPIGMQGWFNIRKSINVI QHINRAKDKNHHMISIDAEKAF DKIQPFMLKTLNKLVLVLEVLAR AIRQEKDIKQLGKEEVKLSLF ADDMIVYLENPIVSAQNLKLIS KFSKVSQYKIHVLKSQAFLYTN NRQTESQIMRELPTTIASKRIKY LGIQLTRDVKDLFKENYKPLLN EIKEDTNKWKNIPCS WIGRINIM RRSSAPSGCHLCPSSLYLHSPN VELKQASFSVAGFQWKLGITAP TQPRGVGDDFVTSTSPSLDMF PRLKGAENSPHRSGRD
19639	50007	A	19754	1	3288	
19640	50008	A	19755	1	1293	
19641	50009	A	19756	264	490	VYLLIVLAVLYTNNRQTESQIM SELPTTIASKRIKYLGIQLTRDV KDLFKDNYIPL/LKEI*EDTSKW KSIPCSWI
19642	50010	A	19757	1	1845	
19643	50011	A	19758	1	3144	MGDFNTPLSTLDRSSRQKVNK DTQELNSLTHHADLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHV GSKALLSKCKRTEIITNCLSDHS AIKPELRICKLTQNRSTTWKLN NLLNDYWVHNKMKAEIKMFF ETNENKDTTYQNLWDTFKA/VS RGKFIALNAHKRQKRCCKIDTL ASQLKEVEKQEQTHSKASRRQ EITKIRAEKLEIETQKTLQKINES RSWFLERINKIDRLARLIKKR EKNQIDVIKNDK
19644	50012	B	19759	1	1743	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19645	50013	A	19760	1	1500	MGKKQSRK TENSKNQASAPPPE ECSSSPAMEQSWMENDFHEL EEGFRSNFSELKEDVRTHSKEA KNLEKRLDEWLTGITSVEKSLN DLMELKTMARELCDKCTSFSS KFHQLLEERVSVTEQDMNEMKS WFFEKINKIDRLLARLIKKKRE KNQIEAIKNDKGDITTDPTETQT TIREYYKHLTYNKLLENLEEMDT FTGTYTLPRLNQEEIESLNKPI GSEIEAIHNSLPTKKSPGPDGFTA EFYQRYKEELLFNIRKLINLIQL INRTQDP*PPL/VLSRIGRRVHQ YLENPVSAQNLLKLSNFSKV SGYKINVQKSQAFLYIKKRQTE SQIMSELPFTIASKRIKYLGIQLI RDVKDLFKENYKPLLENEIKEGT NKWKNI PCSWIGRINIVKMAILP KVIYRFNAIPIKLPMTFFTELEKI TLKFIWNQERACIAKTILSKKN KAGGIMLPDFKLYYKA\TVIKT AWDWYQNRYLQDQWNRTEPSEI TPHIYNHLIF
19646	50014	A	19761	1	3192	
19647	50015	B	19762	180	190	
19648	50016	A	19763	1	3212	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRKKNLTQNRSTTWKLNLL LNDYVWHNEMKAEIKMFFETN ENKDDTTYQNLWDTFKAVCRGK FIALNAHKRQKERSKIDLTSQL KELEKQEQTHSKASRRQETKIR AELKEIETQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, \ =possible nucleotide insertion)
19649	50017	A	19764	1	2607	MTNHCFKRQFQKHEMLLKEDC EPGDSSFILGEQHWENMLCEPK QHPPQQGEGRAAGQAQNP.LNT DVSPGAGAKESEEKIQHLNNT YFKQKCMSCSGFTFSSYAMHW VHQAPGKGLEWVSAIGAGGGT YYADSVKGRFTISRDNKNSLY LQMNSLRAEDMAVYYCARDTI DAYGDEKPSTIVTRIVLRKLR DTCHMGADRTFLSPIAQHPPV CHVETHLGMQVANSSEEDLV WSKWDVDVKFILCCAKYHREQ LQESALDLKSLHCPASPALFL ATPSQPVLTTGPGSASSQGGAE MGAHFLVQLVQSGAETRESFD PALPEMETQRTDEQCRAVHGP QKERHGNMSP.LLMKGSSSPVP SGPGEEPSHREPVSFICGRCLLT LLLGDC.LWGE.GAWTQGDVLQ PSDRASFLAMGVNTTVQQVGD LSGYFPNSVGKACKCREFHLLT PLAHTSSTTHETFPGAQCEVQL VESGGGLVQPGGLRLSCPDG FTFSNHYMSWVRQAPGKGLEW ISYISGDSGYTNYADSVKGRFTI SRDNANNSPYLQMNSLRAEDT AVYYCVKHTARGKLEKQEQT SKASRRQEITKIRAELEKETETQK TLQKINESRSWFFEKIYKIDRPL ARLKKKREKNQIDA.KNGKGD ITTDPEITQTLREYYKHLYAN KLENLEGMDFKFLDAYTLPRLN
19650	50018	A	19765	1	1251	
19651	50019	A	19766	1099	4113	
19652	50020	A	19767	1	2628	
19653	50021	B	19768	1	2970	
19654	50022	B	19769	1	4142	
19655	50023	A	19770	1	4091	MHIVVETALSASWQNKAKPPA RVLLQVVPNVWFLVAVVWEL YPSLDLMDRSIECSSPATEQS WTENDYDKLREEGFRRSNYSE LQEDIQTKGKDVENFEKNLEEC ITRITNTQKCLKEL.MELKTKAR ELREECRLRSRCDQLEERVSV MEDEMNMKQEGKFREKRIKR NEQSLQEIWDYVVKRPNRLIGV PESDGENGTLKNTLQDIIQENF PNLARQAKVQIQEIQRMPQRY LTRATPRHIIIVRTKVE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19656	50024	A	19771	156	450	LQVEIYKTVKMHCIWHKQMVSYFFFYQKKNELSNFEVFLKTAGSMFFSTVVGCHPTRCGEFEKNNPDLYLKELLNLAEANNKGKVVVFIGECGLDFDRLQ
19657	50025	A	19772	173	1009	LHGGNLQDSKDALHLAQTNGMFFSTVGIHPTRCG*/YFEKNNPDLYLKGVAKIFA/EKTLKGKILWQLGECGLDFDRLQFCPKDTQLKYFEKQFELSEQTKLPMFLHCRNSHGWNFLDIMKRNDRDCVGGVVHSFDGTKEAASLIDLDLYIGFNG/CASPENLEANLGRFWKSTPSEKLMIEA/DAPWCGVKSTHA/GSKYIRTAFFPSKKKWESGHCLKDRNEPCHIIQLEIMSAVRDEDPLELANTLVNNTIKVVFSWNIGICLPLSIMYVKFHSKTS
19658	50026	A	19773	16	1558	QEIHLQRASPRLLQLLPPLPPPPPPAAGGSLSSLSGRMSRQV/VRS SKFRHVFGQPAKADQICYEDVRVSQTTWDSGFWC/SVN*VLWALICEASGGGAFLVLPGLKIWT LWDKNAPTGGGSH/APVLDIA WCPHNDNVIA/SGSEDICTVMV WEIPDGLMLPLREPVVATLEG HTKRVGIVVAWHTTAQNVLLSAGCDNVIMVWDVGP/GAAMLDT GPRGA/HPDANYRGDWEP/DGGLICTSCRDKRVRIIEPRKGTVVA EKDRPHEGTRPVRAVFSSEGI LTTGFSRMSERQVALWDTKHL EESPV/SLRKLHTRNGVPVAFFG P/DTNIVYLRKG/SGPIRVFEIT SEVAPFLHYLSMFS/SKESQRMGYM/PKRGRKVNK/CEIAGFY KLHDGR/CVSPMPKVPVRKSDL FQEDLGPTPPRGPDPA/LTAIEE WLGGRDVG/PLFISLKDGYV/PP KSRELARVNRGLDP/GRRR/AAP EASGTPSSDAVSRLEEEMRKLQ ATVQELQKRLDRLEETVQAKL
19659	50027	A	19774	229	475	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19660	50028	A	19775	225	965	EWAWRSQRLRSEHSRADPTRSSC RSCGAKMSGEENPASKPTPVQ DVQGDGRWMSLHHRFVADSK DKSGSKKKNPPEVVFVIGDSL VQLMHQCEIWRELFSPHLAUN FGIGDGTQHVLRLENGELE HIRPKIVVVVWG/TPNNHGHTA EQGLLPRGQHPNPLREKNRQV NELGTGGTWLGHPRAHFLDAD PGFVHSDGTISHHDMYDYLHLS RLGYTPVCRALHSLLLRLLAQD QQGAGLLEPAP
19661	50029	B	19776	691	1077	PSVAFL*PSLHRYGHTGTAGPG WPCAAGS*AA/SSSRGLPSVLQ ASSNSSHRCNSTPSGAGQRR VRRAP*MASTTPGGTESGPCKA RNAFRMRSTSAFCRGQ*QRPVP SSSSSRSSSRACAVAGETASGDP RAQRQLRS*DESSSPSLDFRQA /PWPTAPCVKVSYSRRMFSGM SPWRSSDNKRNSFLRKTGTGSN FSADLDTPPMPEVCLLPSLGYP LVPPVAEVHMPVPAPILPSAGIR RKIQKAASAKQLPLFQMDDSF QHRVQGDTKK
19662	50030	A	19777	481	1308	
19663	50031	C	19778	41	318	INNHIRDSCWTCHCSC/QPPPPPP LLPQPPP*LSAPRVIERKE*DRL/ CPGEQTSSPTSPRTQSAATA QLSLPPP
19664	50032	A	19779	970	1193	
19665	50033	A	19780	1	494	MDGRVMAAGGRQAPGQKKAG TSEAPSSQEWPEAWYGCLQQ KLRAVYLVSQPCPTGPVLAPG AACPAAAASTPGCAQW/CGPR ACSPQTSSQLCAWFAFSSRCPD FCPNPPRPL*DPSPWPTDADRC SPELTIRDSCTWCHCSCRRRHR RPFCCSRRPDSPRHG
19666	50034	C	19781	120	392	
19667	50035	A	19782	174	375	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=/possible nucleotide deletion, v=/possible nucleotide insertion)
19668	50036	A	19783	33	1154	QFALCAGWWLCGRGGGRTPAT MSGFSTEERAVPFSLEYRVFLK NEKGQYISPFHDIPYADKDVFH MIVVEVPRWSNAKMEIATKDP LNPIKQDVKKGLRYVA/NLFP YKGYIWNYGAFPPQTW/EDPG HNDKTLGCGCLTMDP/IDVC* NWEKGVCARGEIIG/VKVLG/IL AMNDGGGTDWKVIAINVDPP GCQPINNDINDVKRLK/PGYL* KL/PVDWFR/YKVPDGGK/PENEF AFNAEFKDK/DFA/IDIHKSTPWT LGKALVT*ENRMGKGISCMNT NFVLRAPFKVCILDAQSP/LWD ALP/THPCGICPCHSTQQTVDKG VPITQKNLMRFPLEYQADIA/YIR VPSWMVLEVKVVAFSKAFK/V EPHPNLK
19669	50037	A	19784	1	612	VTQEDDIIEEHKPRTPRSP/LL APSPACQAFGEHSGHP/AST GAGPRPSASFSPHLSGLHREPP LNWSVCPGLVWSPK/PALDETH PFVQQFPHQATLEWGVFHRD/V GRRWGRR/LGNLQIGSEVARRR RVGGGGLQCRRLGVGASPGAD W**SG*EEACGGRWAA/GADG WGLGRPRELIGCRWRRSLAA APGPQRPGFVSVSTPRCPR/RS METQTPALRVQQDD/LFQS
19670	50038	A	19785	1	951	MEEGISSQIGRENECQQKKCQ TLIK/PSDLVRTHSYHENS/MGETI LVIQLPPPGTAFDMWELQ/KLI TQTFSHHNQLAQKTRREK/RAR QEA/ERREKAERAARLAK/KA ETSGPQIKELT/DEEAERLQ/LEID QKKDAENHEAQLKNG/SLDSP GKQDTEEDDEEDKDKGKL/KP NLGNGEDLPNYRWTQT/SEL/D LA/VFPCVNFRLKGKDMVVD/IQ RRHLRVGLKGQPA/INDGELYNE VKVEESSWLIEDGKVVT/VHLE KRG/PADAHSRALS/VLQASRLL GVHCVPGTVPNAEIQVVD/VFVIY FWQSVIPQAS/PISE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19671	50039	A	19786	87	1191	SAELRDVDRSAARLGGEQEEER FDGMLLAMAQIQHEGGVQELV NTFFSFLRRKIDFFIGGEEGTAE KLITQTFSHHNQLAQKTRREK ESPRRAEVRREKAERAARLAK EAKSETSGPQIKELTDEKAVERL QLEIDQKKDAENHEAQLKNGS LDSPGKQDTEDEEEDEKDKG KLKPNLGNRADLAQ*RLNPDP RELDLAVPFVFNRLKGDMDV VDIQRGTPRVGLKGQPSDSL GELYNEVKVEES\SWLIEDGKV VTVHLEK\NKMEWWSRLVS/S DPEINHPRKINPENSKA\SDLDS *DFASMVEKDDGMTQRTESPM GLPNFTQNRKKQEI.LK\KFM\DQ HP\EMGFPPKAKFPTNPCCFP
19672	50040	A	19787	3	403	
19673	50041	A	19788	281	1952	DPVPGCRRLVAMAPTITQTAQ REDGHRPNSHRTLPERSGVVC VKYCNSLPDIPDPKFITYPFDQ NRFVQYKATSLKQHKHDLT EPDLGVITIDLINPDYRIDPNVL LDPADKLEEEIQAPTSSKRSQ QHA\KVVPVWMRKTEYISTEFN RYCIFHEK\PEVKKWGSVKQQF TEEEIYKDRDSQITAEKTFEDA QKSVIEGLGWGEARISQHYSKP RVTPVEVMPVPDFKMWINPC AQVIFDSDPAPKDTSGAAALEM MSQA\MIRGMMDEEGN\QFVA YFLPVEETLKRRKRDQEEEMD YAPDDVYDYKIAREYNWNVK NKASKGYEENYFFIFREGDGVY YNELETRVRLSKRRKA\GVQ SGTNALLVVKHRDMNEKELEA QETRKAQLENHEPEEEEEEME TEEKEAGGSDEEQEKGSSEKE GSEDEHSGSESEREEDRHEAS DKSGSGQDDSSDY*ARAARDK EEIFGSDADSEDDADSDDEDRG QAQGGSDNDSDSGRN\GGGQR TRSHRSASFPSPSGSEHSAQENG SEAAASDSSEADSDSD
19674	50042	A	19789	1	885	
19675	50043	C	19790	164	361	
19676	50044	C	19791	22	156	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19677	50045	A	19792	1	1344	PGRTTRSMADVFSLAPIRGC ADGRDADPTEEHMAQTERNDE EQFECQELL*CHVQVGAPEEEEE EEEEDAVLVAEEA VAAAGWM LNFLCLSLCRAFREGRSEDFRRT RNSAEAIHGLCLSLTACQLRTIYI CQFLTRIAAGKTLDAQFENDER ITPLESALMIWGSIEKEHDKLHE EIQNLIKIAIACVMENGNFKG AEEVFERIFGDPNSHMPFKSKL LMIISQKDTFHFFQHFYSYNHM MEKISYVINYVLSEKSSSTFLM KAAAKVVESKRTRTITTSQDKPS GNDVEMETEANLGKKKK*LT NSLR*LNPRVQYPPY*GSHKNL FYLKLQHGTTQQDLNKKERRV GTPQSTKKKKESRRATESRIPVS KSQPVTPKHKRARKRQAWLWE EDKNLRSGVRKYEGGNWSKIL LHYKFNNRTSVMLKDRWRMTM KKKLKLISSDSED
19678	50046	A	19793	1	1444	IPGSTISCLKGQYPSEFPNMAED VSSAAPRRRCADGRDPDTEE QMAETERNDEEQFECQELLE QVQVGAPEEEEEEEEDAGLV AEAEAVAAAGWMLDFCLSLCR AFRDGRSEDFRTRNSAKAIY GLSMLTACPLRTIYICQFLTRIA AGKTP*MHRFENDERITPLGISP *MIWGSIEKEHDKLHEEIQNLIK IQIAIACVMENGNFKEAEVFER IFGDPNSHMPFKSKLLMIISQKD TFHFFQHFYSYNHMMGKIKSY VNYVLSEKSSSTFLM/KAAAKVV ESKRTRTITTSQDKPSGNDVEME TEANLDRKRSHKNLFLSKLQH GTQQQDLNKKERRVGTQSTK/ RRKKEGRRATESRIPVSKSQPV TPENDRARKRQAWLWGRKDK ILRS/GVREFGEGN/WS*ILLHY KFNNRTSVMLKARWRTMEG NLKDLFLQDSEDWIVFVKSFDG KGQFKYFDHCLFETCVIDVI
19679	50047	A	19794	1	1020	
19680	50048	A	19795	411	769	SHLGFPGTWTRLWPSRMSPCPP QQSRNRVIQLSTSEL/APALGN WARLPQVTEQ*FRGLRKGSRT MPGSSPATWTKGCLLA*Q*CL CPQLGWSRVAP*CRLGALFLAC SLLLAAPLRFC

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, \ =possible nucleotide insertion)
19681	50049	A	19796	171	325	ETVAVSSAGARASSIMRMVSS RPSETSLSESVFPDSAP/PGL*PPP CLSFL
19682	50050	A	19797	335	1536	GCSPPCPQ\QSI\NRVQLSTSEL GEMELTW\QI\MSITEACRVLN APSEPSFEAKPQLPYL/GPPPT TY/CP/CSIHDPDGGFPV/PPPYEL PASTSHVPDP\PPSYG\NMAIPV SK\PLSLSGLLSEPLQDPLALLD IGLPAGPPKPQEDPESDSGLSLN YSDAESLELEGTEAGRRRSELC RRCPV\VEY\PSYLM\PNLSLAHSN YT\PAAE\TPALEPSSGPAVRA KPTARGE/AQGSRDERRAL\AM KISF\PTDKIVNFPVDDFNELLA RYPLTESQLALVRDIRRGKNK VAAQNCRRKKLETIVHLERKL ERLTNE\RERL\LR\IRGEASRT LKVMRQQLQEL\YREHFP\SHLR E*NPQQTAYS*KK*RA\CKQAC PNGDPSFPCGPRGT\KMEAHRL
19683	50051	A	19798	1	408	LNLMRWEAVQARGGAFRIPRV DPGPTPIPHNSSRFD\CN\SVSTA PRVLVSGICAAGSFVLVAFSHS VGTSLC/GYFLLLTSPEAQDPGG EEEEAESAAQPLIRTEAPE\SKPG SSSLSLRERWTVFKGLLWYIV PLV
19684	50052	A	19799	1	759	
19685	50053	A	19800	1	1815	
19686	50054	A	19801	1	942	MGGCAGSRRRFS\DS\EGEETVPE PRLPLLDHQA\HWKNAVGFV LLGLCNNFSYV\MLSA\HDILS HKRTSGNQSHVDPGPTPIPHNS SSRFD\CN\SVSTA\PRVLVSGICA AGSFVLVAFSHSVGTSLC/GYFL LLTSPEAQDPGG\EEEEAESAAQ PLIRTEAPE\SKPGSSSLSLRER WTVFKGLLWYIVPLVVVYFAE YFINQGLVSEGCLFRPFPSALN VCEVNLVKV\SQHGGWVAVV TQKKKHPISCRLNVDGMNIIS NDGSNKLNR\SRKARVSYKVQR TINASLNAAT\STRAVSSNPNFV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, \ =possible nucleotide insertion)
19687	50055	A	19802	82	1620	SLSPVADPHPSRGSPLWLTLYDP GPSGDLNLMRWIGCAGSRRRFS DSEGEEETVPEPRLPLLDHEGAH WKNAEGFWLLGLCNNFSYVV MLSAAHDLCHKRTSGNQSHV DPGPNGDSPTTAYSRFDCNSVF TGAVLLADILPTLVIKLLAPLG LHLLPYRSGPRVLVSGICAGG KFRPGFAFHSVSGVTSLCGCWSF ASISSGLGEVTFLLSLTAFYPRA VISWSSSGTGGAGLLGALSYL GLTQAGLSPPQTLTSLMLGIPAL LLASYFLLLTSPQAQDPERGEE AKVQAGQPFIRTEGPE/GKPGSS SSLSLRERWTVVKGLLWVPLF PWFEVTFPKYFITQGLFELP/LFF WTTSLSHAQYRWYQMLYQA GVFASRSSLSISIGFTWALAL LQCLINLVFLADVWFGFLPSI YLVFLINLYEGAPWGSASIREK PFHNIRPWRPSDEHREVCCKWR PPCHL*HTGGFILSGASLALPLH DFLLPSSPDTRDPQDAGHIHLW ARGTGYQ
19688	50056	C	19803	270	542	
19689	50057	A	19804	271	449	CLELRNLFYGACSWEVSISDS EKPGIFNASPASAVHC**GFARP SSWRVLGAICTFHHSVYAKTA KRKAST*RHFFH
19690	50058	A	19805	21	79	
19691	50059	A	19806	1242	1560	WATRSCSSMMEMPPWCPCGC AGRWRGGASRGPREAAAGH* KPRTSNQGEQPTRRSPYAACA RRAFAGPWASLSPSPSLSAGGL AWGAPCVAHPTRSPYLLV
19692	50060	B	19807	148	2949	
19693	50061	A	19808	1335	2173	KQAHRPREEKRREEKRKEG/PS VPETLKKQQRNFTLKKIKRLRK KFAQQMLRKARIRKLIYEKAK HYPKE/YRKMYRT*ISNGRGWA RKVAGQLYLVLKNPKFAV/VIRN QKVSMDVSPKLRKVVSFLRP SSKSSNETFVKALKQRPSD*TM P*GLVRGP/LPWGYPPQS*SPV NEP*SYKRGYAKIQ*EAEPLT DNALIASISWVNSAFICMDDLI HEIYTVGKRFK/EANNFLWPLQ IVLLPRGG/MKKKTTHFVEGGD AGTQRSDQINRLIRRMN
19694	50062	A	19809	3	186	
19695	50063	A	19810	272	428	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
19696	50064	A	19811	50	2237	RSLKAFICSLSDMDKQSRDPPVK MQGSITTPGSIALAQAQAQAV PAKAPLAGQVSTMVTTSTTTTV AKTVTVTRPTGVSFKKDVPPSI NTTNTIDLLVATDQTERIVEPPE NIQEIAIFNNLSQSNMTQKEE LVNNTELVSQYRQQIGNVVNQ ANLQLFWNMYNSRRDLINRP GTVFNAKTLRCPVMLVVGDNA PAEDGVVECNKSLDPITTTFLK MADSGGLPQVTQPGKLTFAFK YFLQGMGYMPSASMTLRASR TASLTASSVDGSRPQACTHSE SSEGLGQLNLKFEIEVLCKNLA LDINELKPGNLLKDKDRKLNLD EQLSAPKKDVKQPEELPITTTT TSTTPATNSTCTATVPPQPQYS YHDINVYSLAGLVPHITLNPTA HPQLKQCVRAIERAVQELVHP VVDRIKIAMTTCQIVRKDFA LDSEESRMRIAHHMMRNLT GMAMITC/RE/PLLMISITNLKN SFASALRTASPLQREMMDQAA AQI*AQDNCFL/CKVGGVDPK QLAVYEEFARNVPGFLPTNDLS QPTGFLAQPMKQAWATDDVA QIYDKCITEQHLHAIPPTLAM NPQAQALRSLLEVVLVSRNSRD AIAALGGLQKSMENGLNYMAV AFAMQLVKILLVDESRVAHV EADLFHTIETLMRINAHSRGNA PEGMDITTRQKVNKKREGFND
19697	50065	A	19812	1	3777	KNPEFNKMLVNETYRNKVLTT SDKAAANFSRSLKLNGLHWL GMITLAKNKPILHTDLVKSLL LEAYVKGQQLLYVVPFVAKV LESSIRS VVFRPPNPWTMAIMN VLAELHQEHLKLNLFKEIEVL CKNLALDINELKPGNLLKDKDR LKNLDEQLSAPKKDVKQPEELP PITTTTSTTPATNTTCTATVPP QPQYSYHDINVYSLAGLPHIT LNPTPLFQAHPQLKQCVRAIE RAVQELVHPVDR